and/or conformational epitopes on a given antigen. Moreover, such libraries would increase the likelihood with which a particular antibody of interest might be identified with a high affinity and developability profile.

[0005] All references cited herein, including patent applications, patent publications, and UniProtKB/Swiss-Prot Accession numbers are herein incorporated by reference in their entirety, as if each individual reference were specifically and individually indicated to be incorporated by reference.

SUMMARY

[0006] To meet the above and other needs, disclosed herein are antibody sequences, such as light chain hypervariable regions (HVRs) and light chain variable regions (*e.g.,* VL regions), that allow for dynamic human antibodies. These sequences were designed to allow for antibodies with highly flexible HVR sequence loops that are able to bind their targets with high potency and/or recognize multiple useful epitopes, and/or cross-react with epitopes shared among different species at low sequence identity (around 60% sequence identity or less). Advantageously, these antibody sequences allow the creation of much smaller libraries that nonetheless contain a multitude of useful antibodies, and/or a much larger diversity at a given library size. Such libraries can be used to identify new antibodies of interest that are specific for a wide range of targets or, in some cases, cross-reactive against multiple targets of interest.

[0007] Accordingly, in one example, provided herein are libraries comprising polynucleotides (e.g., synthetic polynucleotides), wherein one of the polynucleotides encodes an antibody light chain variable region comprising a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 of the antibody light chain variable region comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, at least two, at least three, at least four, at least five, at least ten, at least 50, at least 100, at least 200, at least 250, or 280 of the polynucleotides encode a light chain variable region comprising a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 of the antibody light chain

variable region comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, each of the polynucleotides encode a light chain comprising a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23.

[0008] In some examples, the polynucleotides contain less than about 1000 unique combinations of HVR-L1, HVR-L2, and HVR-L3 sequences. In some examples, the polynucleotides contain about 280 or less unique combinations of HVR-L1, HVR-L2, and HVR-L3 sequences. In some examples, the light chain variable region comprises a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4 and a HVR-L2 of the antibody comprises an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, at least one of the HVR-L1, HVR-L2, and HVR-L3 of the antibody light chain variable region adopts multiple conformations, as assayed by structural determination and/or computational modeling. In some examples, at least one of the polynucleotides encoding the antibody light chain variable region is in a vector. In some examples, the vector is an expression vector. In some examples, the vector is a display vector. In some examples,

at least one of the polynucleotides encoding the antibody light chain variable region is in a cell. In some examples, the cell is a bacterial, yeast, or mammalian cell (e.g., non-human animal cells or isolated human cells).

[0009] In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 sequence selected form the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (7) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (8) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (9) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (10) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID

NOS:10-23; (11) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (12) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (13) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (14) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (15) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (16) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (17) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; and (18) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid

sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (7) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (8) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (9) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:17; (10) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:5, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; and (11) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:8, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:11. In some examples, the light chain variable region comprises a HVR-L1, a HVR-L2, and a HVR-L3 of an antibody listed in Table 2.

[0010] In some examples, the light chain variable region comprises a FW-L1 comprising the amino acid sequence of SEQ ID NO:24, a FW-L2 comprising the amino acid sequence of SEQ ID NO:25, a FW-L3 comprising the amino acid sequence of SEQ ID NO:26, and a FW-L4 comprising the amino acid sequence of SEQ ID NO:27. In some examples, the light chain variable region comprises a sequence selected from the group consisting of SEQ ID NOS:28-50. In some examples, the polynucleotides encode full-length antibody light chains. In some examples, the libraries further comprise polynucleotides that encode antibody heavy chain variable regions. In some examples, the polynucleotides that encode antibody heavy chain variable regions include at least one unique sequence, at least 100 unique sequences, at least 1000 unique sequences, or least about 10^9 unique sequences.

[0011] In another example, provided herein are libraries comprising polynucleotides (e.g., synthetic polynucleotides) encoding a plurality of unique antibodies, wherein each antibody comprises a heavy chain variable region and a light chain variable region, wherein the light chain variable region of each antibody of the plurality comprises an identical sequence and comprises a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:5-9 and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4 and a HVR-L2 of the antibody comprises an amino acid sequence selected from the group consisting of SEQ ID NO:5-9. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:5-9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from

group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (16) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (17) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; and (18) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (7) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (8) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (9) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID

NO:17; (10) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:5, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; and (11) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:8, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:11. In some examples, the light chain variable region comprises a HVR-L1, a HVR-L2, and a HVR-L3 of an antibody listed in Table 2.

[0011a] In one aspect, the present disclosure refers to a library comprising polynucleotides that encode a plurality of antibody light chain variable regions, wherein each of the antibody light chain variable regions comprise an HVR-L1, an HVR-L2 and an HVR-L3, and wherein at least one of the antibody light chain variable regions comprises:

a. an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:5-9 and an HVR-L3 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:10-23;

b. an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:1-4 and an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:5-9;

c. an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:1-4 and an HVR-L3 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:10-23;

d. an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:1-4, an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:5-9, and an HVR-L3 that consists of an amino acid sequence selected from the group consisting of SEQ ID NO:10-23;

e. the HVR-L1, the HVR-L2, and the HVR-L3 are selected from the group consisting of: (1) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:1, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 selected from the group consisting of SEQ ID NOS:10-23; (2) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (3) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:2, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (4) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:2, an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:18; (5) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:1, an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:23; (6) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:1, an HVR-L2 sequence selected form the group consisting of SEQ ID NOS:5-9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:20; (7) an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:18; (8) an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-

L3 that consists of the amino acid sequence of SEQ ID NO:23; (9) an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:20; (10) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:3, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (11) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:6, and an HVR-L3 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (11b) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:7, and an HVR-L3 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (12) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:23; (13) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:14; (14) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:1, an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:18; (15) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:3, an HVR-L2 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:20; (16) an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:14; (17) an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:6, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:23; and (18) an HVR-L1 that consists of an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:7, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:23;

f. the HVR-L1, the HVR-L2, and the HVR-L3 are selected from the group consisting of: (1) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:2, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:18; (2) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:1, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:23; (3) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:1, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:20; (4) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:14; (5) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:3, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:20; (6) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:1, an HVR-L2 that consists of the

amino acid sequence of SEQ ID NO:9, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:18; (7) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:7, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:23; (8) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:6, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:23; (9) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:6, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:17; (10) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:5, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:20; and (11) an HVR-L1 that consists of the amino acid sequence of SEQ ID NO:4, an HVR-L2 that consists of the amino acid sequence of SEQ ID NO:8, and an HVR-L3 that consists of the amino acid sequence of SEQ ID NO:11; or

g. the HVR-L1, the HVR-L2, and the HVR-L3 are selected from the group consisting of:

(1) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:10;

(2) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:11;

(3) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:12;

(4) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:13;

(5) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:14;

(6) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:15;

(7) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:16;

(8) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:17;

(9) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:18;

(10) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:19;

(11) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:20;

(12) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:21;

(13) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:22;

(14) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:23;

(15) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:10;

(16) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:11;

(17) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:12;

(18) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:13;

(19) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:14;

(20) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:15;

(21) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:16;

(22) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:17;

(23) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:18;

(24) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:19;

(25) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:20;

(26) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:21;

(27) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:22;

(28) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:23;

(29) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:10;

(30) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:11;

(31) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:12;

(32) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:13;

(33) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:14;

(34) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:15;

(35) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:16;

(36) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:17;

(37) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:18;

(38) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:19;

(39) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:20;

(40) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:21;

(41) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:22;

(42) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:23;

(43) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:10;

(44) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:11;

(45) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:12;

(46) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:13;

(47) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:14;

(48) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:15;

(49) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:16;

(50) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:17;

(51) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:18;

(52) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:19;

(53) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:20;

(54) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:21;

(55) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:22;

(56) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:23;

(57) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:10;

(58) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:11;

(59) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:12;

(60) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:13;

(61) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:14;

(62) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:15;

(63) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:16;

(64) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:17;

(65) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:18;

(66) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:19;

(67) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:20;

(68) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:21;

(69) an HVR-L1 that consists of SEQ ID NO:11, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:22;

(70) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:23

(71) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:10;

(72) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:11;

(73) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:12;

(74) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:13;

(75) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:14;

(76) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:15;

(77) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:16;

(78) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:17;

(79) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:18;

(80) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:19;

(81) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:20;

(82) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:21;

(83) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:22;

(84) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:23;

(85) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:10;

(86) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:11;

(87) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:12;

(88) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:13;

(89) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:14;

(90) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:15;

(91) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:16;

(92) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:17;

(93) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:18;

(94) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:19;

(95) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:20;

(96) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:21;

(97) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:22;

(98) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:23;

(99) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:10;

(100) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:11;

(101) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:12;

(102) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:13;

(103) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:14;

(104) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:15;

(105) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:16;

(106) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:17;

(107) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:18;

(108) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:19;

(109) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:20;

(110) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:21;

(111) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:22;

(112) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:23;

(113) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:10;

(114) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:11;

(115) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:12;

(116) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:13;

(117) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:14;

(118) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:15;

(119) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:16;

(120) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:17;

(121) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:18;

(122) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:19;

(123) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:20;

(124) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:21;

(125) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:22;

(126) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:23;

(127) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:10;

(128) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:11;

(129) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:12;

(130) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:13;

(131) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:14;

(132) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:15;

(133) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:16;

(134) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:17;

(135) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:18;

(136) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:19;

(137) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:20;

(138) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:21;

(139) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:22;

(140) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:23;

(141) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:10;

(142) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:11;

(143) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:12;

(144) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:13;

(145) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:14;

(146) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:15;

(147) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:16;

(148) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:17;

(149) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:18;

(150) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:19;

(151) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:20;

(152) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:21;

(153) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:22;

(154) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:23;

(155) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:10;

(156) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:11;

(157) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:12;

(158) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:13;

(159) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:14;

(160) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:15;

(161) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:16;

(162) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:17;

(163) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:18;

(164) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:19;

(165) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:20;

(166) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:21;

(167) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:22;

(168) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:23;

(169) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:10;

(170) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:11;

(171) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:12;

(172) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:13;

(173) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:14;

(174) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:15;

(175) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:16;

(176) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:17;

(177) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:18;

(178) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:19;

(179) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:20;

(180) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:21;

(181) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:22;

(182) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:23;

(183) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:10;

(184) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:11;

(185) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:12;

(186) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:13;

(187) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:14;

(188) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:15;

(189) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:16;

(190) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:17;

(191) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:18;

(192) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:19;

(193) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:20;

(194) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:21;

(195) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:22;

(196) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:23;

(197) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:10;

(198) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:11;

(199) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:12;

(200) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:13;

(201) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:14;

(202) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:15

(203) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:16;

(204) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:17;

(205) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:18;

(206) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:19;

(207) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:20;

(208) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:21;

(209) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:22;

(210) an HVR-L1 that consists of SEQ ID NO: 3, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:23;

(211) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:10;

(212) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:11;

(213) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:12;

(214) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:13;

(215) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:14;

(216) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:15;

(217) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:16;

(218) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:17;

(219) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:18;

(220) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:19;

(221) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:20;

(222) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:21;

(223) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:22;

(224) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:23;

(225) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:10;

(226) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:11;

(227) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:12;

(228) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:13;

(229) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:14;

(230) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:15;

(231) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:16;

(232) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:17;

(233) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:18;

(234) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:19;

(235) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:20;

(236) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:21;

(237) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:22;

(238) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:23;

(239) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:10;

(240) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:11;

(241) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:12;

(242) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:13;

(243) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:14;

(244) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:15;

(245) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:16;

(246) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:17;

(247) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:18;

(248) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:19;

(249) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:20;

(250) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:21;

(251) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:22;

(252) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:23;

(253) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:10;

(254) an HVR-L1 that consists of SEQ ID NO:4 an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:11;

(255) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:12;

(256) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:13;

(257) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:14;

(258) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:15;

(259) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:16;

(260) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:17;

(261) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:18;

(262) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:19;

(263) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:20;

(264) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:21;

(265) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:22;

(266) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:23;

(267) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:10;

(268) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:11;

(269) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:12;

(270) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:13;

(271) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:14;

(272) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:15;

(273) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:16;

(274) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:17;

(275) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:18;

(276) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:19;

(277) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:20;

(278) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:21;

(279) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:22; and

(280) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:23.

[0012] In some examples, the light chain variable region comprises a FW-L1 comprising the amino acid sequence of SEQ ID NO:24, a FW-L2 comprising the amino acid sequence of SEQ ID NO:25, a FW-L3 comprising the amino acid sequence of SEQ ID NO:26, and a FW-L4 comprising the amino acid sequence of SEQ ID NO:27. In some examples, the light chain variable region comprises a sequence selected from the group consisting of SEQ ID NOS:28-50.In some examples, the heavy chain variable regions of the antibodies in the library have at least one unique sequence, at least 100 unique sequences, at least 1000 unique sequences, or at least about 10^9 unique sequences. In some examples, the polynucleotides of the library are synthetic polynucleotides.

[0013] In another example, provided herein are antibodies comprising a polypeptide expressed by a polynucleotide (e.g., a synthetic polynucleotide) from the library according to any of the preceding examples. In some examples, the antibody binds at least 1 target with an equilibrium dissociation constant (Kd) of between about 10^{-7} and about 10^{-11} M.

[0014] In another example, provided herein are libraries comprising polypeptides in which at least one (*e.g.,* at least one, at least two, at least five, at least 10, at least 25, at least 50, at least 75, at least 100, at least 125, at least 150, at least 175, at least 200, at least 225, at least 250, at least 275, *etc.*) of the polypeptides is encoded by encoded by a polynucleotide of the polynucleotide (e.g., synthetic polynucleotide) library according to any of the preceding examples. In some examples, at least two of the polypeptides are encoded by a polynucleotide of the polynucleotide library. In some examples, at least 100 of the polypeptides are encoded by a polynucleotide of the polynucleotide library. In some examples, each of the polypeptides is encoded by a polynucleotide of the polynucleotide

library. In some examples, the at least one polypeptide is a light chain variable domain. In some examples, the at least one polypeptide is displayed on the surface of a phage. In some examples, the library comprising polypeptides further comprises at least one heavy chain variable domain polypeptide.

[0015] In another example, provided herein are libraries comprising vectors in which at least one (*e.g.,* at least one, at least two, at least five, at least 10, at least 25, at least 50, at least 75, at least 100, at least 125, at least 150, at least 175, at least 200, at least 225, at least 250, at least 275, *etc.*) of the vectors comprises a polynucleotide of the polynucleotide library according to any of the preceding examples. In some examples, at least two of the vectors comprise a polynucleotide from the polynucleotide library. In some examples, at least 100 of the vectors comprise a polynucleotide from the polynucleotide library. In some examples, each of the vectors comprises a polynucleotide from the polynucleotide library. In some examples, the at least one vector encodes a light chain variable domain polypeptide. In some examples, the library comprising vectors further comprises a vector that encodes a heavy chain variable domain polypeptide. Also provided herein are libraries comprising populations of cells in which at least one (*e.g.,* at least one, at least two, at least five, at least 10, at least 100, at least 10^3, at least 10^4, at least 10^5, at least 10^6, at least 10^7, at least10^8, at least 10^9, *etc.*) cell comprises a vector of the library according to any of the preceding examples. In some examples, at least two of the cells comprise a vector of the library. In some examples, at least 100 of the cells comprise a vector of the library. In some examples, each of the cells comprises a vector of the library. In some examples, the at least one cell is a bacterial, yeast, or mammalian cell (e.g., non-human animal cells or isolated human cells).

[0016] In another example, provided herein are phages comprising at least one polypeptide displayed on its surface, wherein the at least one polypeptide comprises an antigen binding domain that comprises an antibody light chain variable region comprising a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 of the antibody light chain variable region comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the

group consisting of SEQ ID NOS:10-23. In some examples, the antigen binding domain further comprises an antibody heavy chain variable region.

[0016a] In one aspect, the present disclosure refers to a phage comprising at least one polypeptide displayed on its surface, wherein the at least one polypeptide comprises an antigen binding domain that comprises the antibody light chain variable region comprising a HVR-L1, a HVR-L2 and a HVR-L3 as disclosed herein.

[0017] In another example, provided herein are non-human animals comprising the polynucleotide library according to any of the preceding examples. In some examples, the non-human animals are mammals (*e.g.*, a mouse, rat, rabbit, camel, or non-human primate). In some examples, the non-human animal comprises polynucleotides, wherein one of the polynucleotides encodes an antibody light chain variable region comprising a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 of the antibody light chain variable region comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23.

[0017a] In one aspect, the present disclosure refers to a non-human animal comprising the library disclosed herein.

[0018] In another example, provided herein are antibody light chains comprising a light chain variable region comprising a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:5-9 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4 and a HVR-L2 of the antibody comprises an amino acid sequence selected from the group consisting of SEQ ID NO:5-9. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID

NO:5-9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 selected from the group consisting of SEQ ID NOS:10-23; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 sequence selected form the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (7) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (8) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (9) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (10) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (11) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising an amino acid sequence selected from

the group consisting of SEQ ID NOS:10-23; (12) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (13) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (14) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (15) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (16) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (17) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; and (18) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising the amino acid

sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (7) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (8) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (9) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:17; (10) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:5, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; and (11) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:8, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:11. In some examples, the light chain variable region comprises a HVR-L1, a HVR-L2, and a HVR-L3 of an antibody listed in Table 2.In some examples, the light chain variable region comprises a FW-L1 comprising the amino acid sequence of SEQ ID NO:24, a FW-L2 comprising the amino acid sequence of SEQ ID NO:25, a FW-L3 comprising the amino acid sequence of SEQ ID NO:26, and a FW-L4 comprising the amino acid sequence of SEQ ID NO:27. In some examples, the light chain variable region comprises a sequence selected from the group consisting of SEQ ID NOS:28-50. In some examples, at least one of the HVR-L1, HVR-L2, and HVR-L3 of the light chain variable region adopts multiple conformations, as assayed by structural determination and/or computational modeling.

[0019] In another example, provided herein are antibodies comprising a heavy chain and a light chain, wherein the light chain comprises a light chain variable region described herein. In some examples, the light chain variable region comprises a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23. In some

examples, the light chain variable region comprises a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:5-9 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4 and a HVR-L2 of the antibody comprises an amino acid sequence selected from the group consisting of SEQ ID NO:5-9. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:5-9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:10-23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 selected from the group consisting of SEQ ID NOS:10-23; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 sequence selected form the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (7) a HVR-L1 comprising an amino acid sequence selected from

SEQ ID NO:23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (7) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (8) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (9) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:17; (10) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:5, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; and (11) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:8, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:11. In some examples, the light chain variable region comprises a HVR-L1, a HVR-L2, and a HVR-L3 of an antibody listed in Table 2.In some examples, the light chain variable region comprises a FW-L1 comprising the amino acid sequence of SEQ ID NO:24, a FW-L2 comprising the amino acid sequence of SEQ ID NO:25, a FW-L3 comprising the amino acid sequence of SEQ ID NO:26, and a FW-

L4 comprising the amino acid sequence of SEQ ID NO:27. In some examples, the light chain variable region comprises a sequence selected from the group consisting of SEQ ID NOS:28-50. In some examples, the antibody binds at least 1 target with an equilibrium dissociation constant (Kd) of between about 10^{-7} and about 10^{-11} M.

[0019a] In one aspect, the present disclosure refers to an antibody comprising a heavy chain and a light chain, wherein the light chain comprises a light chain variable region comprising an HVR-L1, an HVR-L2 and an HVR-L3, wherein the HVR-L1, the HVR-L2, and the HVR-L3 are selected from the group consisting of:

(1) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:10;

(2) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:11;

(3) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:12;

(4) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:13;

(5) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:14;

(6) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:15;

(7) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:16;

(8) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:17;

(9) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:18;

(10) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:19;

(11) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:20;

(12) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:21;

(13) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:22;

(14) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:23;

(15) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:10;

(16) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:11;

(17) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:12;

(18) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:13;

(19) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:14;

(20) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:15;

(21) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:16;

(22) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:17;

(23) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:18;

(24) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:19;

(25) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:20;

(26) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:21;

(27) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:22;

(28) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:23;

(29) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:10;

(30) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:11;

(31) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:12;

(32) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:13;

(33) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:14;

(34) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:15;

(35) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:16;

(36) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:17;

(37) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:18;

(38) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:19;

(39) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:20;

(40) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:21;

(41) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:22;

(42) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:23;

(43) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:10;

(44) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:11;

(45) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:12;

(46) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:13;

(47) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:14;

(48) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:15;

(49) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:16;

(50) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:17;

(51) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:18;

(52) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:19;

(53) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:20;

(54) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:21;

(55) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:22;

(56) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:23;

(57) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:10;

(58) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:11;

(59) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:12;

(60) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:13;

(61) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:14;

(62) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:15;

(63) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:16;

(64) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:17;

(65) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:18;

(66) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:19;

(67) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:20;

(68) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:21;

(69) an HVR-L1 that consists of SEQ ID NO:11, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:22;

(70) an HVR-L1 that consists of SEQ ID NO:1, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:23;

(71) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:10;

(72) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:11;

(73) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:12;

(74) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:13;

(75) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:14;

(76) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:15;

(77) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:16;

(78) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:17;

(79) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:18;

(80) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:19;

(81) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:20;

(82) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:21;

(83) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:22;

(84) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:23;

(85) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:10;

(86) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:11;

(87) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:12;

(88) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:13;

(89) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:14;
(90) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:15;
(91) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:16;
(92) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:17;
(93) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:18;
(94) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:19;
(95) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:20;
(96) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:21;
(97) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:22;
(98) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:23;
(99) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:10;
(100) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:11;
(101) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:12;
(102) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:13;
(103) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:14;
(104) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:15;
(105) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:16;
(106) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:17;
(107) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:18;
(108) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:19;
(109) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:20;
(110) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:21;
(111) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:22;

(112) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:23;

(113) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:10;

(114) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:11;

(115) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:12;

(116) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:13;

(117) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:14;

(118) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:15;

(119) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:16;

(120) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:17;

(121) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:18;

(122) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:19;

(123) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:20;

(124) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:21;

(125) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:22;

(126) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:23;

(127) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:10;

(128) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:11;

(129) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:12;

(130) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:13;

(131) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:14;

(132) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:15;

(133) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:16;

(134) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:17;

(135) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:18;

(136) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:19;

(137) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:20;

(138) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:21;

(139) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:22;

(140) an HVR-L1 that consists of SEQ ID NO:2, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:23;

(141) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:10;

(142) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:11;

(143) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:12;

(144) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:13;

(145) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:14;

(146) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:15;

(147) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:16;

(148) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:17;

(149) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:18;

(150) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:19;

(151) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:20;

(152) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:21;

(153) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:22;

(154) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 5, and an HVR-L3 that consists of SEQ ID NO:23;

(155) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:10;

(156) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:11;

(157) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:12;

(158) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:13;

(159) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:14;

(160) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:15;

(161) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:16;

(162) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:17;

(163) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:18;

(164) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:19;

(165) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:20;

(166) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:21;

(167) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:22;

(168) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 6, and an HVR-L3 that consists of SEQ ID NO:23;

(169) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:10;

(170) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:11;

(171) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:12;

(172) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:13;

(173) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:14;

(174) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:15;

(175) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:16;

(176) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:17;

(177) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:18;

(178) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:19;

(179) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:20;

(180) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:21;

(181) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:22;

(182) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 7, and an HVR-L3 that consists of SEQ ID NO:23;

(183) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:10;

(184) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:11;

(185) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:12;

(186) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:13;

(187) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:14;

(188) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:15;

(189) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:16;

(190) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:17;

(191) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:18;

(192) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:19;

(193) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:20;

(194) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:21;

(195) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:22;

(196) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:23;

(197) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:10;

(198) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:11;

(199) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:12;

(200) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:13;

(201) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:14;

(202) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:15;

(203) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:16;

(204) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:17;

(205) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:18;

(206) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:19;

(207) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:20;

(208) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:21;

(209) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO: 9, and an HVR-L3 that consists of SEQ ID NO:22;

(210) an HVR-L1 that consists of SEQ ID NO:3, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:23;

(211) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:10;

(212) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:11;

(213) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:13;

(214) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:14;

(215) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:15;

(216) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:16;

(217) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:17;

(218) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:18;

(219) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:19;

(220) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:20;

(221) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:21;

(222) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:22;

(223) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:5, and an HVR-L3 that consists of SEQ ID NO:23;

(224) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:10;

(225) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:11;

(226) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:12;

(227) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:13;

(228) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:14;

(229) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:15;

(230) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:16;

(231) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:17;

(232) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:18;

(233) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:19;

(234) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:20;

(235) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:21;

(236) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:22;

(237) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:6, and an HVR-L3 that consists of SEQ ID NO:23;

(238) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:10;

(239) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:11;

(240) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:12;

(241) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:13;

(242) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:14;

(243) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:15;

(244) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:16;

(245) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:17;

(246) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:18;

(247) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:19;

(248) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:20;

(249) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:21;

(250) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:22;

(251) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:7, and an HVR-L3 that consists of SEQ ID NO:23;

(252) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:10;

(253) an HVR-L1 that consists of SEQ ID NO:4 an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:11;

(254) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:12;

(255) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:13;

(256) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:14;

(257) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:15;

(258) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:16;

(259) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:17;

(260) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:18;

(261) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:19;

(262) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:20;

(263) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:21;

(264) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:8, and an HVR-L3 that consists of SEQ ID NO:22;

(265) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO: 8, and an HVR-L3 that consists of SEQ ID NO:23;

(266) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:10;

(267) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:11;

(268) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:12;

(269) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:13;

(270) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:14;

(271) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:15;

(272) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:16;

(273) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:17;

(274) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:18;

(275) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:19;

(276) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:20;

(277) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:21;

(278) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:22; and

(279) an HVR-L1 that consists of SEQ ID NO:4, an HVR-L2 that consists of SEQ ID NO:9, and an HVR-L3 that consists of SEQ ID NO:23.

[0020] In another example, provided herein is a polynucleotide (*e.g.,* a synthetic polynucleotide) encoding any of the antibody light chain variable regions described herein. In some examples, the polynucleotide encodes a full length antibody light chain comprising any of the antibody light chain variable regions described herein. In some examples, the polynucleotide encodes an antibody comprising any of the antibody light chain variable regions described herein.

[0021] In another example, provided herein is a library comprising antibody light chain variable regions, wherein at least one (*e.g.,* at least one, at least two, at least three, at least four, at least five, at least ten, at least 50, at least 100 *etc.*) of the antibody light chain variable regions comprises the amino acid sequence of any of the antibody light chain variable regions described herein. In some examples, each of the antibody light chain variable regions in the library comprises the amino acid sequence of any of the antibody light chain variable regions described herein. In some examples, the library further comprises one or more antibody heavy chain variable regions. In some examples, provided herein is a library comprising full length antibody light chains, wherein at least one (*e.g.,* at least one, at least two, at least three, at least four, at least five, at least ten, at least 50, at least 100 *etc.*) of the antibody light chains comprises the amino acid sequence of any of antibody light chain variable regions described herein. In some examples, each of the antibody light chains in the library comprises the amino acid sequence of any of the antibody light chain variable regions described herein. In some examples, the library further comprises one or more full length antibody heavy chains. In some examples, provided herein is a library comprising antibodies, wherein at least one (*e.g.,* at least one, at least two, at least three, at least four, at least five, at least ten, at least 50, at least 100 *etc.*) of the antibodies comprises the amino acid sequence of any of antibody light chain variable regions described herein. In some examples, each of the antibodies in the library comprises the amino acid sequence of any of the antibody light chain variable regions described herein.

[0021a] In one aspect, the present disclosure refers to a library comprising antigen binding domains, wherein one of the antigen binding domains comprises the antibody light chain variable region as defined in the library disclosed herein.

[0022] In another example, provided herein are methods of preparing a library comprising providing and assembling the polynucleotide sequences of the library according to any of the preceding examples.

[0022a] In one aspect, the present disclosure refers to a method of preparing a library comprising providing and assembling the polynucleotide sequences of the library disclosed herein.

[0023] In another example, provided herein are methods of making an antibody library comprising the steps: (a) selecting one, two or three light chain HVRs comprising a sequence having multiple conformations; and (b) assembling polynucleotide sequences to produce a library of polynucleotides (e.g., synthetic polynucleotides) encoding a plurality of antibody light chain variable region sequences. In some examples, the antibody light chain variable region sequences are human antibody sequences. In some examples, the antibody light chain variable region comprises a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 of the light chain variable region comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4 and a HVR-L2 of the antibody comprises an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from

SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (15) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (16) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (17) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; and (18) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (7) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (8) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID

NO:23; (9) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:17; (10) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:5, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; and (11) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:8, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:11. In some examples, the light chain variable region comprises a HVR-L1, a HVR-L2, and a HVR-L3 of an antibody listed in Table 2. In some examples, the light chain variable region comprises a FW-L1 comprising the amino acid sequence of SEQ ID NO:24, a FW-L2 comprising the amino acid sequence of SEQ ID NO:25, a FW-L3 comprising the amino acid sequence of SEQ ID NO:26, and a FW-L4 comprising the amino acid sequence of SEQ ID NO:27. In some examples, the light chain variable region comprises a sequence selected from the group consisting of SEQ ID NOS:28-50. In another example, provided herein are libraries comprising antigen binding domains, wherein one of the antigen binding domains comprises an antibody light chain variable region comprising a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 of the antibody light chain variable region comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the antigen binding domain further comprises an antibody heavy chain variable region. In some examples, antibody light chain variable region comprises one or more amino acid sequences according to any of the above examples. In some examples, the library comprises phages. In some examples, the antigen binding domain is displayed on the surface of at least one phage of the library. In some examples, the library comprises a plurality of phages that express an antigen binding domain according to any one of the above examples displayed on the phage surface.

[0023a] In one aspect, the present disclosure refers to a method of making an antibody library comprising the steps: (a) selecting one, two or three light chain HVRs comprising a sequence having multiple conformations; and (b) assembling polynucleotide sequences to produce a library of polynucleotides encoding a plurality of the antibody light chain variable region sequences as disclosed herein.

[0024] In another example, provided herein are methods of generating a bispecific antibody comprising two antibody heavy chain variable regions and two identical light chain variable regions, comprising: (a) screening for a first antigen binding domain that binds to a

first antigen, wherein the first antigen binding domain comprises a first antibody heavy chain variable region and a first antibody light chain variable region, and wherein the first antibody light chain variable region is encoded by a polynucleotide of the library according to any of the preceding examples (e.g., the first antigen binding domain comprises a first antibody heavy chain variable region and a first antibody light chain variable region, wherein the first antibody light chain variable region comprises a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 of the antibody light chain variable region comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23); (b) screening for a second antigen binding domain that binds to a second antigen, wherein the second antigen binding domain comprises a second antibody heavy chain variable region and a second antibody light chain variable region, wherein the second antibody light chain variable region has the same sequence as the first antibody light chain variable region (e.g., the second antigen binding domain comprises a second antibody heavy chain variable region and a second antibody light chain variable region, wherein the second antibody light chain variable region comprises a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 of the antibody light chain variable region comprise an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23); and (c) producing a bispecific antibody comprising the first antigen binding domain and the second antigen binding domain.

[0024a] In one aspect, the present disclosure refers to a method of generating a bispecific antibody comprising two antibody heavy chain variable regions and two identical light chain variable regions, comprising:

(a) screening the library disclosed herein for a first antigen binding domain that binds to a first antigen, wherein the first antigen binding domain comprises a first antibody heavy chain variable region and a first antibody light chain variable region;

(b) screening for a second antigen binding domain that binds to a second antigen, wherein the second antigen binding domain comprises a second antibody heavy chain variable region and a second antibody light chain variable region, wherein the second antibody light chain variable region has the same sequence as the first antibody light chain variable region; and

(c) producing a bispecific antibody comprising the first antigen binding domain and the second antigen binding domain.

[0025] In another example, provided herein are bispecific antibodies comprising: (a) a first binding domain comprising a first heavy chain variable region and a first light chain variable region, wherein the first binding domain binds to a first target; (b) a second binding domain comprising a second heavy chain variable region and a second light chain variable region, wherein the second binding domain binds to a second target, wherein the second light chain variable region has a sequence identical to the first light chain variable region sequence; wherein each of the first and second light chain variable regions comprise a HVR-L1, a HVR-L2 and a HVR-L3, and wherein at least two of the HVR-L1, HVR-L2, and HVR-L3 comprise

an amino acid sequence selected from a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4 and a HVR-L2 of the antibody comprises an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4 and a HVR-L3 of the antibody comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:10-23; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:5-9, and a HVR-L3

amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; and (18) a HVR-L1 comprising an amino acid sequence selected from the group consisting of SEQ ID NOS:1-4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23. In some examples, the light chain variable region comprises three of a HVR-L1, a HVR-L2, and a HVR-L3 selected from the group consisting of: (1) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:2, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (2) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (3) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (4) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:14; (5) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:3, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; (6) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:1, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:9, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:18; (7) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:7, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (8) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:23; (9) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:6, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:17; (10) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:5, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:20; and (11) a HVR-L1 comprising the amino acid sequence of SEQ ID NO:4, a HVR-L2 comprising the amino acid sequence of SEQ ID NO:8, and a HVR-L3 comprising the amino acid sequence of SEQ ID NO:11. In some examples, the light chain variable region

comprises a HVR-L1, a HVR-L2, and a HVR-L3 of an antibody listed in Table 2. In some examples, the light chain variable region comprises a FW-L1 comprising the amino acid sequence of SEQ ID NO:24, a FW-L2 comprising the amino acid sequence of SEQ ID NO:25, a FW-L3 comprising the amino acid sequence of SEQ ID NO:26, and a FW-L4 comprising the amino acid sequence of SEQ ID NO:27. In some examples, the light chain variable region comprises a sequence selected from the group consisting of SEQ ID NOS:28-50. In some examples, the first heavy chain variable region is linked to a first heavy chain constant region, wherein the second heavy chain variable region is linked to a second heavy chain constant region, wherein the first antibody light chain variable region is linked to a first light chain constant region, wherein the second antibody light chain variable region is linked to a second light chain constant region, and wherein the first and the second antibody light chains have identical sequences.

[0025a] In one aspect, the present disclosure refers to a bispecific antibody comprising: (a) a first binding domain comprising a first heavy chain variable region and a first light chain variable region, wherein the first binding domain binds to a first target; (b) a second binding domain comprising a second heavy chain variable region and a second light chain variable region, wherein the second binding domain binds to a second target, wherein each of the first and second light chain variable regions comprise a HVR-L1, a HVR-L2 and a HVR-L3, and wherein the HVR-L1 of the first and second light chain variable regions comprises a HVR-L1 sequence selected from the group consisting of SEQ ID NOS:1-4, the HVR-L2 of the first and second light chain variable regions comprises a HVR-L2 sequence selected from the group consisting of SEQ ID NOS:5-9, and the HVR-L3 of the first and second light chain variable regions comprises a HVR-L3 sequence selected from the group consisting of SEQ ID NOS:10-23.

[0026] In another example, provided herein are kits comprising the library of polynucleotides or the population of cells comprising the polynucleotides according to any of the preceding examples.

[0026a] In one aspect, the present disclosure refers to a library prepared by the method disclosed herein.

[0026b] In one aspect, the present disclosure refers to a kit comprising the library disclosed herein.

[0026c] In one aspect, the present disclosure refers to a bispecific antibody generated by the method disclosed herein.

[0027] It is to be understood that one, some, or all of the properties of the various examples described above and herein may be combined to form other examples of the present disclosure. These and other examples of the disclosure will become apparent to one of skill in the art. These and other examples of the disclosure are further described by the detailed description that follows.

BRIEF DESCRIPTION OF THE DRAWINGS

[0028] **FIG. 1A** shows an entropy plot by residue number for the amino acids of a VL domain. 81 VL structures of human antibodies were used to calculate the entropy.

[0029] **FIG. 1B** shows the definition of the hyper-variable regions (HVRs) used herein for an exemplary antibody light chain variable domain (VL) sequence (SEQ ID NO:60) in comparison to the Kabat definition of the complementarity-determining regions (CDRs) for the same VL sequence.