

[CLAIMS]

[Claim 1]

An anti-CD137 antigen-binding molecule, which comprises any combination of VH and VL selected from (a) to (m) below:

(a) a VH comprising the amino acid sequence of SEQ ID NO: 43, and a VL comprising the amino acid sequence of SEQ ID NO: 54;

(b) a VH comprising the amino acid sequence of SEQ ID NO: 44, and a VL comprising the amino acid sequence of SEQ ID NO: 55;

(c) a VH comprising the amino acid sequence of SEQ ID NO: 45, and a VL comprising the amino acid sequence of SEQ ID NO: 55;

(d) a VH comprising the amino acid sequence of SEQ ID NO: 46, and a VL comprising the amino acid sequence of SEQ ID NO: 54;

(e) a VH comprising the amino acid sequence of SEQ ID NO: 47, and a VL comprising the amino acid sequence of SEQ ID NO: 54;

(f) a VH comprising the amino acid sequence of SEQ ID NO: 48, and a VL comprising the amino acid sequence of SEQ ID NO: 56;

(g) a VH comprising the amino acid sequence of SEQ ID NO: 49, and a VL comprising the amino acid sequence of SEQ ID NO: 57;

(h) a VH comprising the amino acid sequence of SEQ ID NO: 50, and a VL comprising the amino acid sequence of SEQ ID NO: 58;

(i) a VH comprising the amino acid sequence of SEQ ID NO: 51, and a VL comprising the amino acid sequence of SEQ ID NO: 59;

(j) a VH comprising the amino acid sequence of SEQ ID NO: 51, and a VL comprising the amino acid sequence of SEQ ID NO: 60;

(k) a VH comprising the amino acid sequence of SEQ ID NO: 52, and a VL comprising the amino acid sequence of SEQ ID NO: 60;

(l) a VH comprising the amino acid sequence of SEQ ID NO: 50, and a VL comprising the amino acid sequence of SEQ ID NO: 59; and

(m) a VH comprising the amino acid sequence of SEQ ID NO: 53, and a VL comprising the amino acid sequence of SEQ ID NO: 54.

[Claim 2]

The anti-CD137 antigen-binding molecule of claim 1, which comprises a heavy chain constant region comprising any one of the amino acid sequences of SEQ ID NOs: 64 to 85.

[Claim 3]

The anti-CD137 antigen-binding molecule of claim 1 or 2, which comprises a light chain constant region comprising the amino acid sequences of SEQ ID NO: 63.

[Claim 4]

An isolated nucleic acid encoding the anti-CD137 antigen-binding molecule of any one of claims 1 to 3.

[Claim 5]

A vector into which the nucleic acid of claim 4 is introduced.

[Claim 6]

A host cell comprising the nucleic acid of claim 4 or the vector of claim 5.

[Claim 7]

A method for producing an anti-CD137 antigen-binding molecule, which comprises culturing the host cell of claim 6 such that the anti-CD137 antigen-binding molecule is produced.

[Claim 8]

An immunoconjugate comprising the anti-CD137 antigen-binding molecule of any one of claims 1 to 3 and a cytotoxic agent.