

FIG. 1



FIG. 2

FIG. 3A

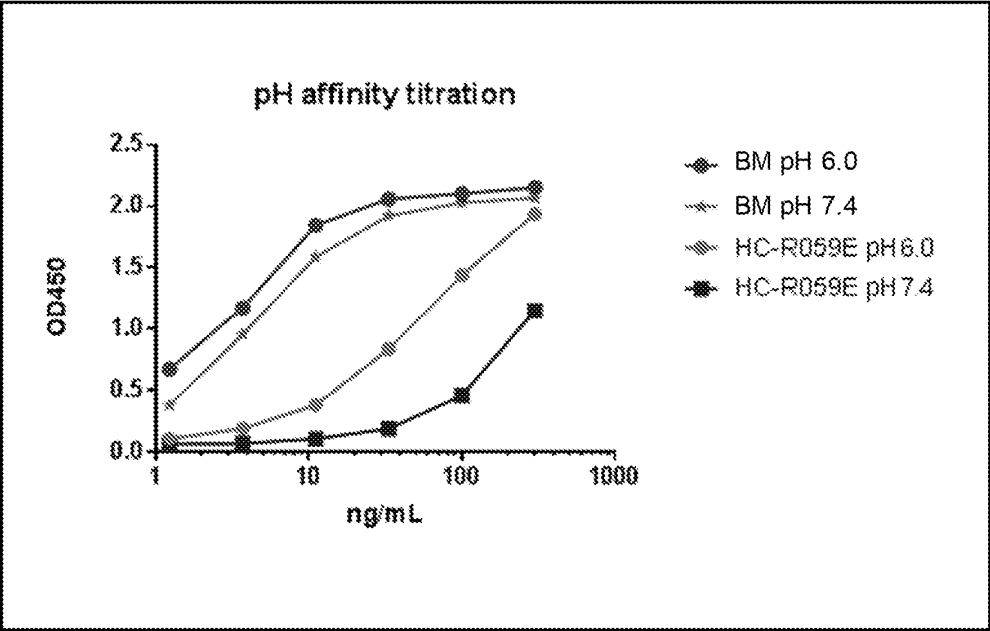


FIG. 3B

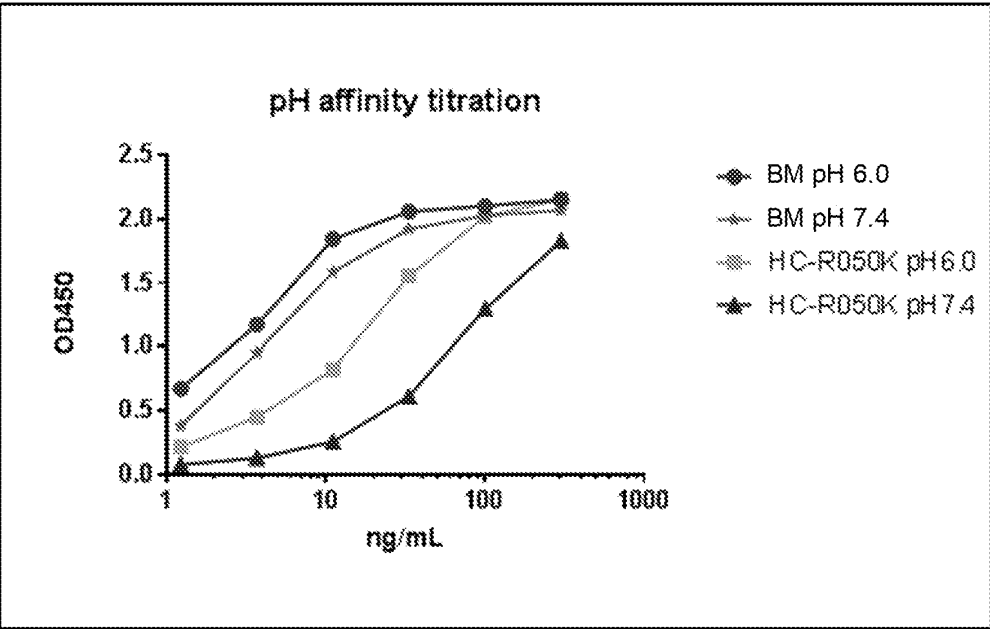


FIG. 3C

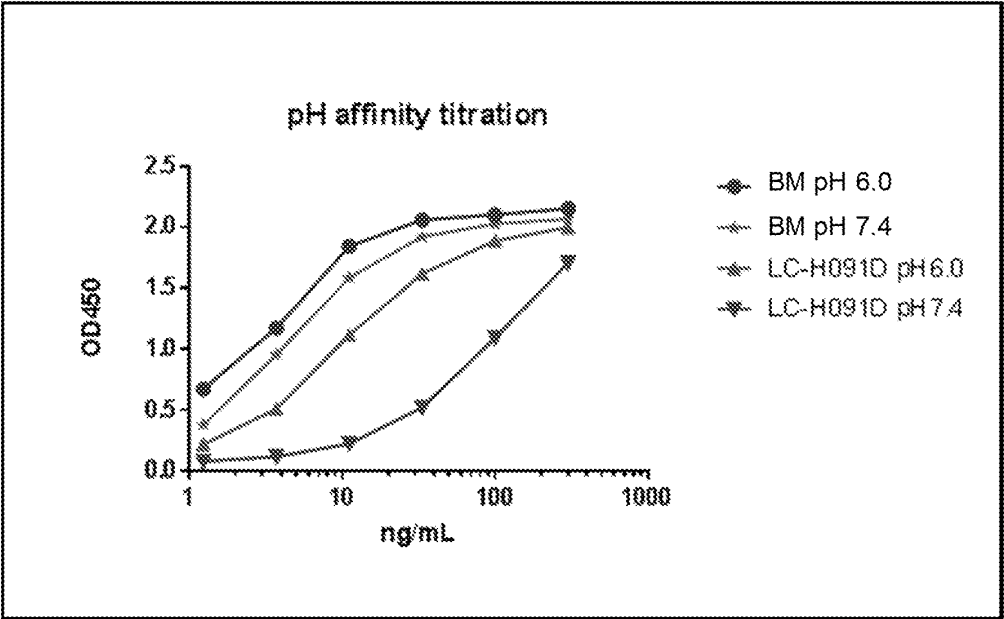


FIG. 3D

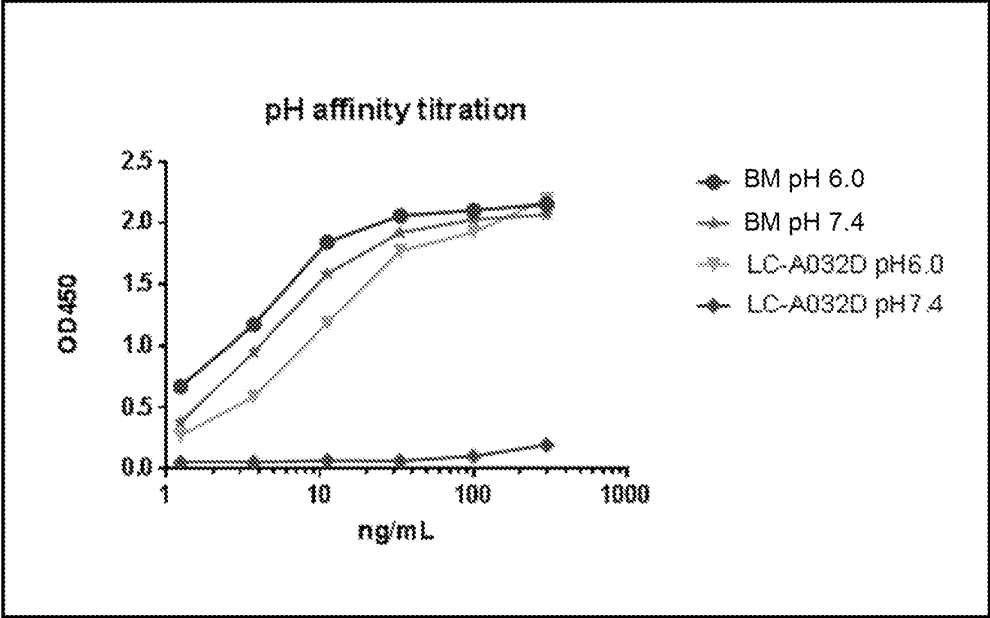


FIG. 3E

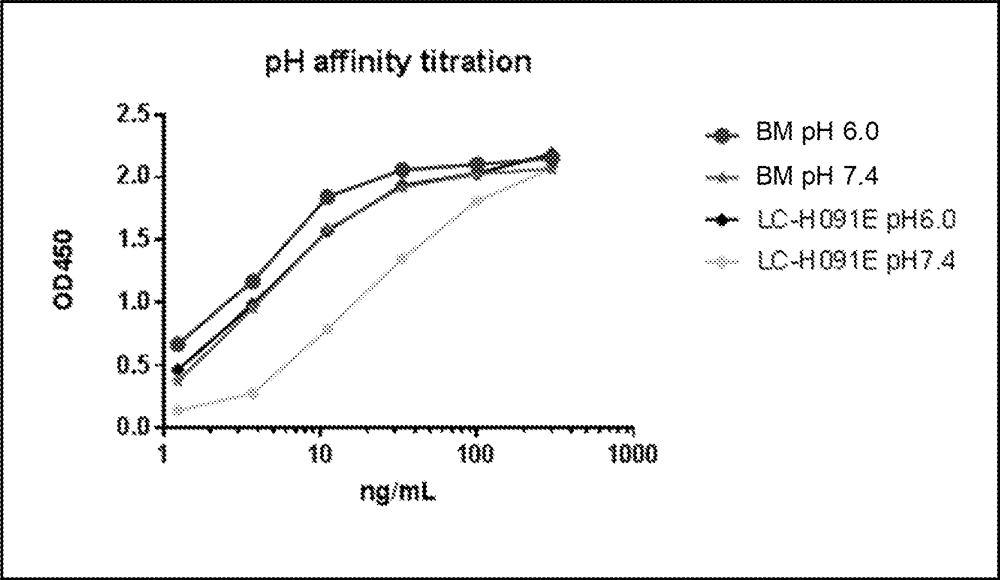


FIG. 4

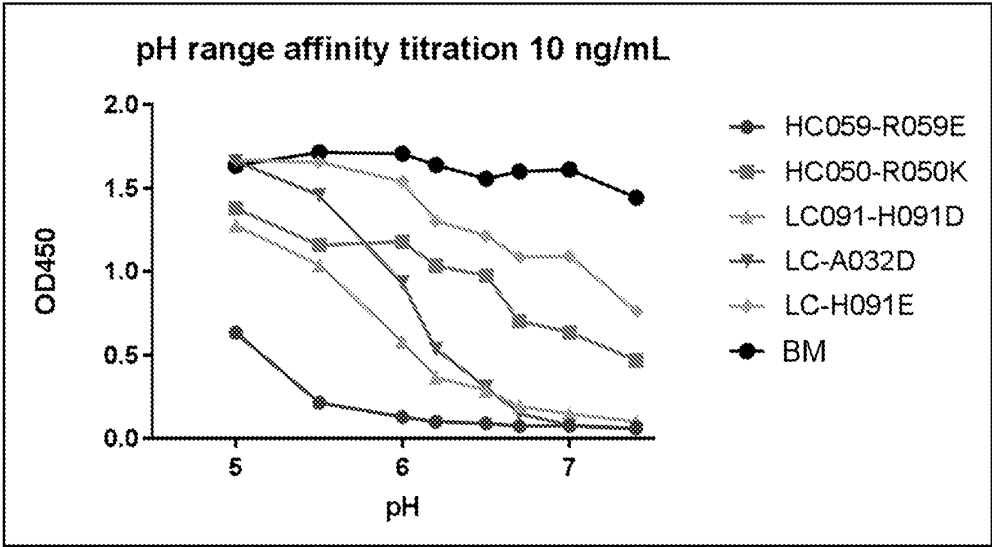


FIG. 5

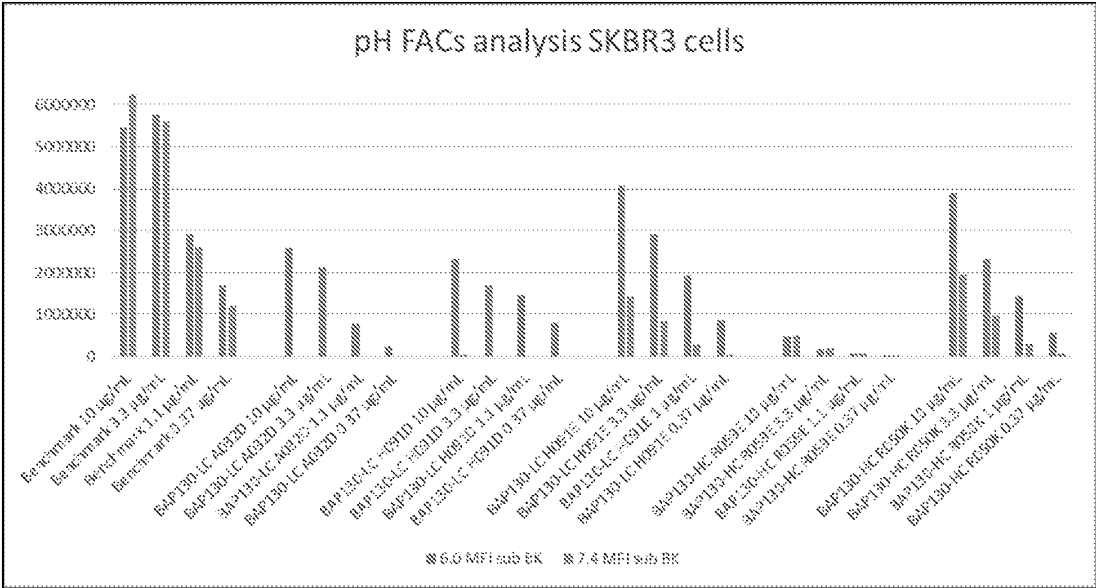


FIG. 6A

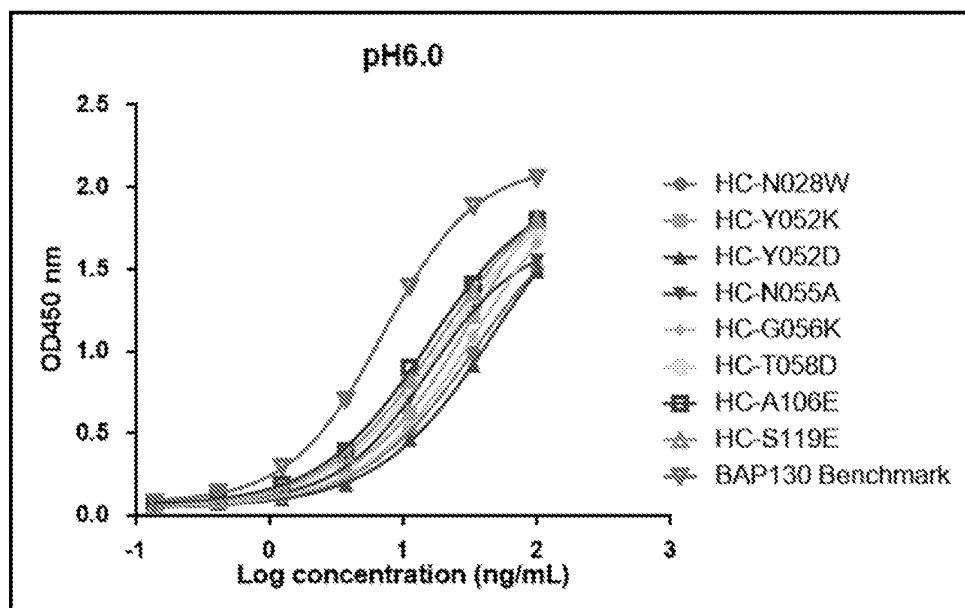


FIG. 6B

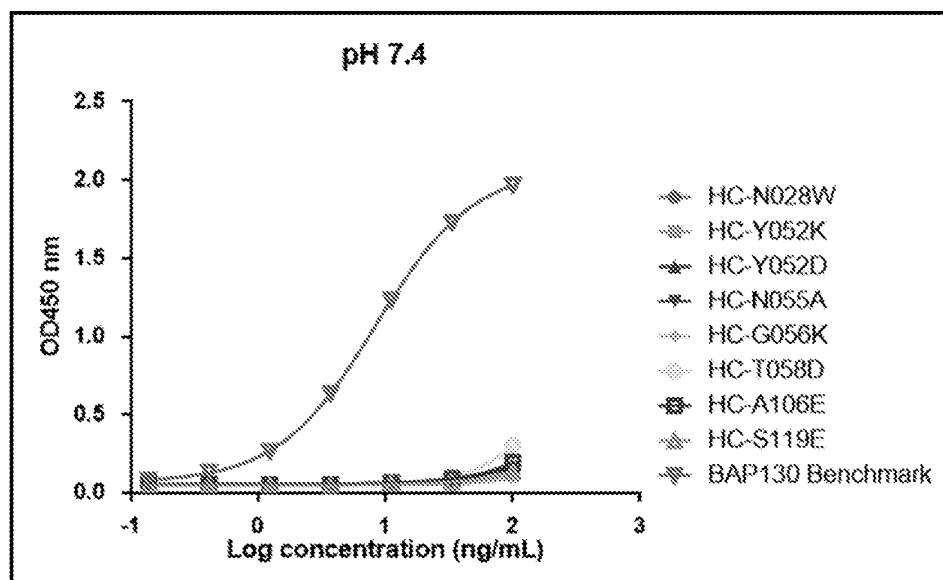


FIG. 7A

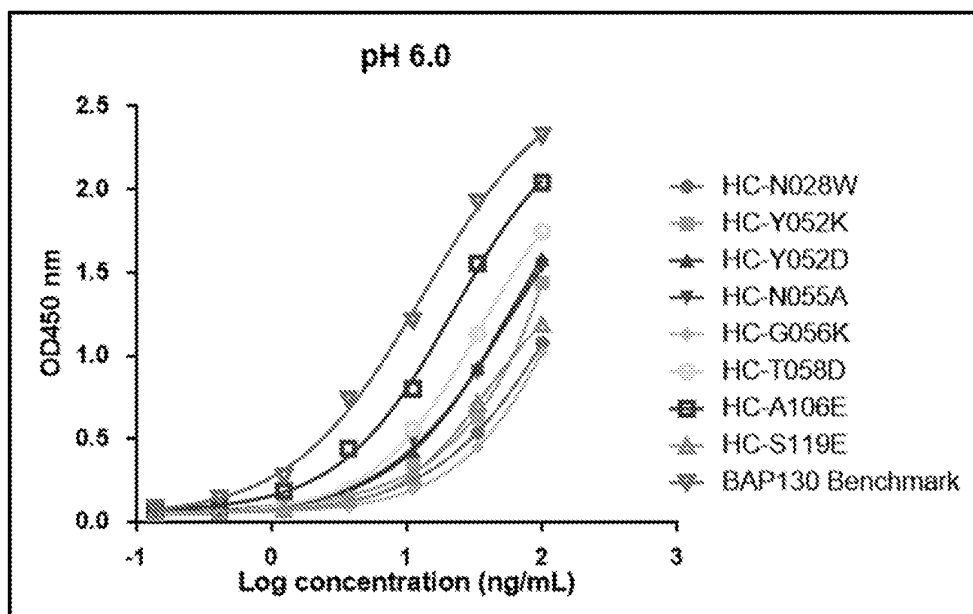


FIG. 7B

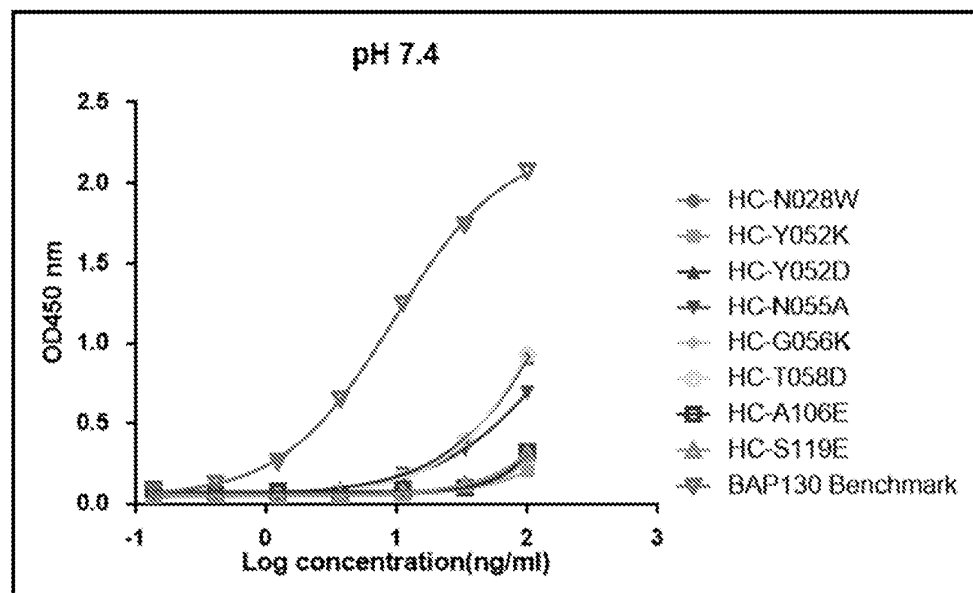
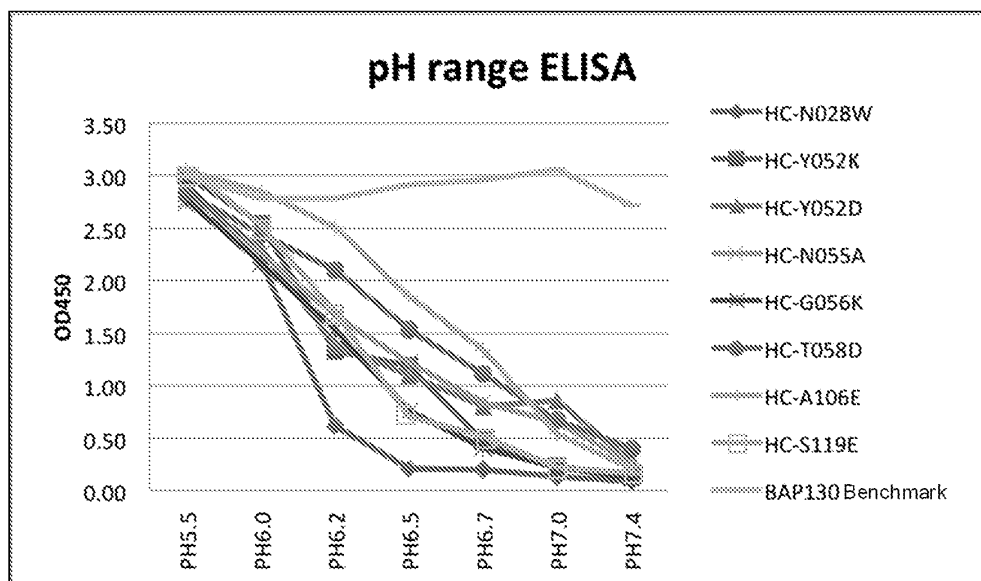


FIG. 8



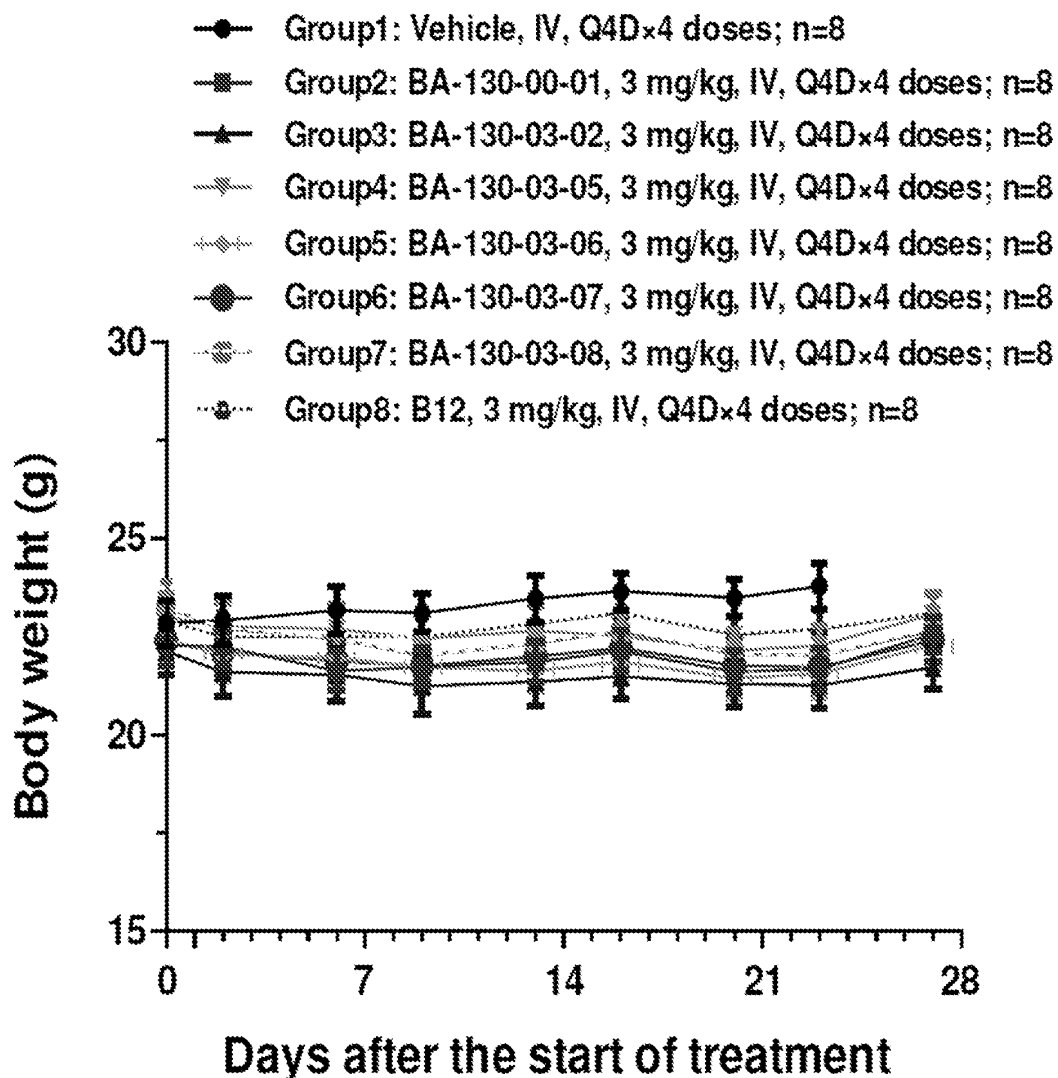


FIG. 9B

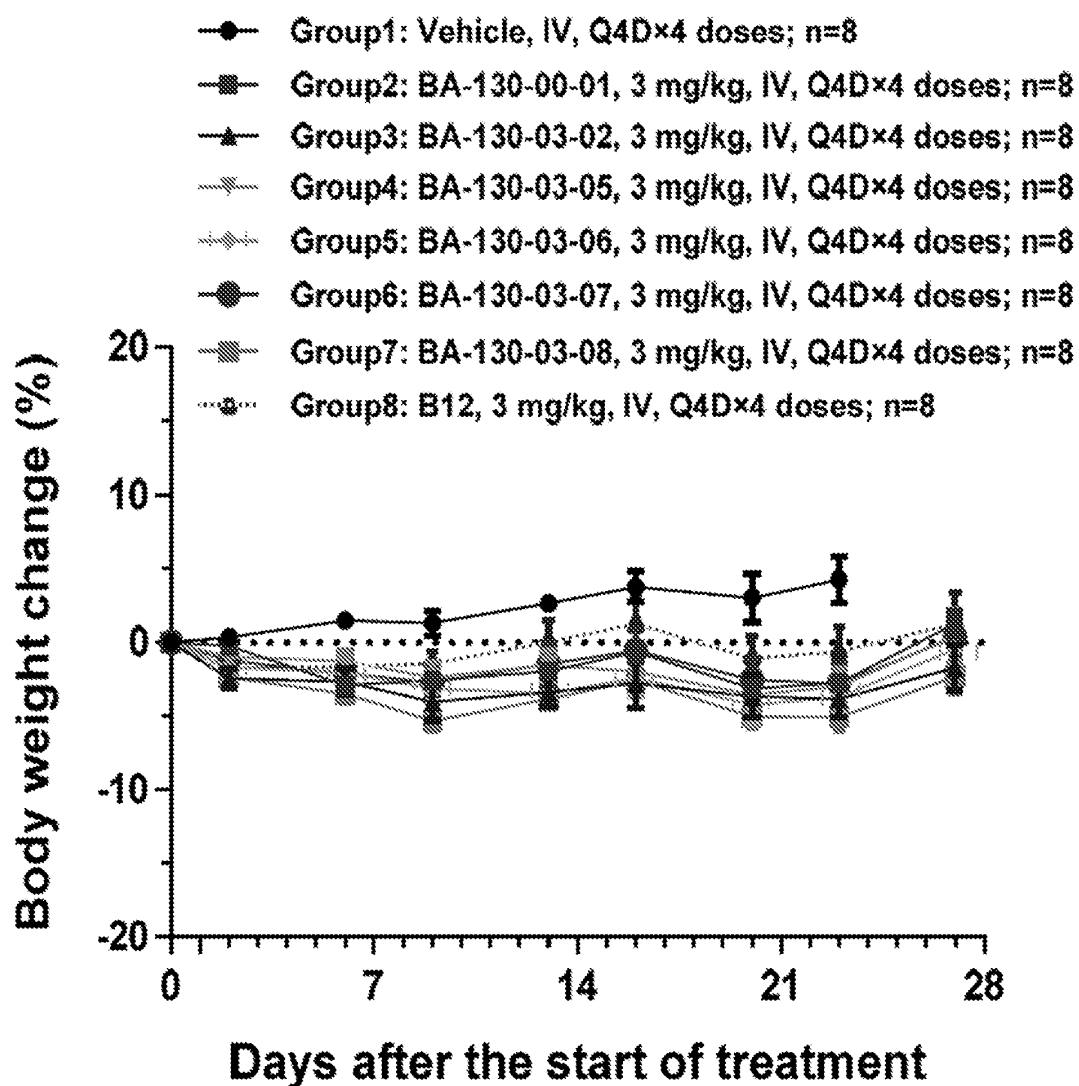


FIG. 9C

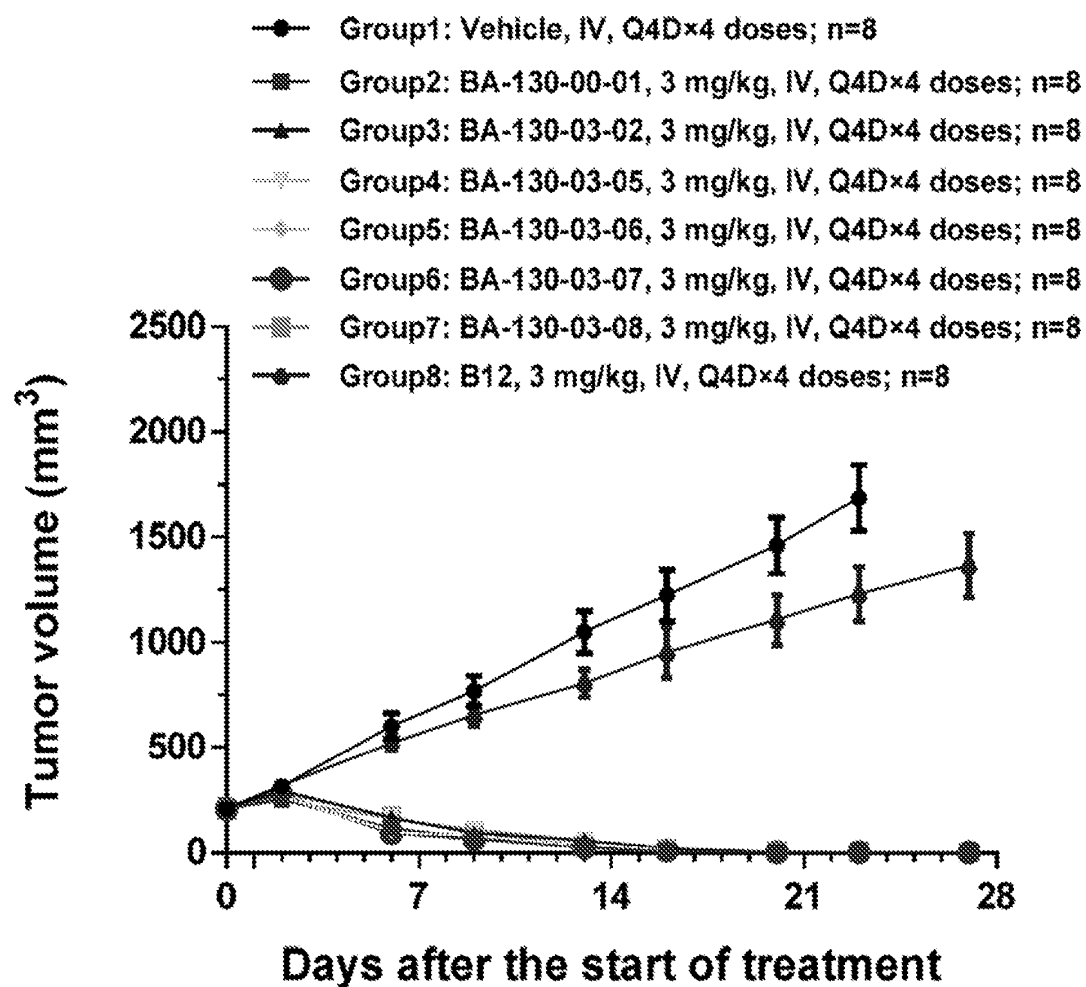


FIG. 10A

	10	20	30	40	50	60
BAP150.24-WT-HC	<u>EVQLVESGGGLVQPGGSLRLSCAASG</u> <u>FN</u> <u>KD</u> <u>TY</u> <u>I</u> <u>H</u> <u>W</u> <u>R</u> <u>Q</u> <u>A</u> <u>P</u> <u>G</u> <u>K</u> <u>G</u> <u>L</u> <u>E</u> <u>W</u> <u>V</u> <u>A</u> <u>R</u> <u>I</u> <u>Y</u> <u>P</u> <u>T</u> <u>N</u> <u>G</u> <u>Y</u> <u>T</u> <u>R</u> <u>Y</u>					
BAP150.24-02-HC	K.....					
BAP150.24-05-HC	K.....					
BAP150.24-06-HC	D..					
BAP150.24-07-HC						
BAP150.24-08-HC						

	70	80	90	100	110	120
BAP150.24-WT-HC	<u>ADSVKGRFTISADTSKNTAYLQMNS</u> <u>IR</u> <u>AE</u> <u>DT</u> <u>A</u> <u>V</u> <u>Y</u> <u>C</u> <u>S</u> <u>R</u> <u>W</u> <u>G</u> <u>G</u> <u>D</u> <u>G</u> <u>F</u> <u>Y</u> <u>A</u> <u>M</u> <u>D</u> <u>Y</u> <u>W</u> <u>G</u> <u>Q</u> <u>T</u> <u>L</u> <u>V</u> <u>T</u> <u>V</u> <u>S</u> <u>S</u>					
BAP150.24-02-HC						
BAP150.24-05-HC						
BAP150.24-06-HC						
BAP150.24-07-HC	E.....					
BAP150.24-08-HC	E.....					

	130	140	150	160	170	180
BAP150.24-WT-HC	<u>ASTKGPSVFPLAPSSKSTSGGTAALG</u> <u>CL</u> <u>V</u> <u>K</u> <u>D</u> <u>Y</u> <u>F</u> <u>P</u> <u>E</u> <u>P</u> <u>V</u> <u>T</u> <u>V</u> <u>S</u> <u>W</u> <u>N</u> <u>S</u> <u>G</u> <u>A</u> <u>L</u> <u>T</u> <u>S</u> <u>G</u> <u>V</u> <u>H</u> <u>T</u> <u>F</u> <u>P</u> <u>A</u> <u>V</u> <u>L</u> <u>Q</u> <u>S</u> <u>S</u>					
BAP150.24-02-HC						
BAP150.24-05-HC						
BAP150.24-06-HC						
BAP150.24-07-HC						
BAP150.24-08-HC						

	190	200	210	220	230	240
BAP150.24-WT-HC	<u>GLYSLS</u> <u>SV</u> <u>VT</u> <u>VP</u> <u>SS</u> <u>SL</u> <u>GT</u> <u>Q</u> <u>T</u> <u>Y</u> <u>I</u> <u>C</u> <u>N</u> <u>V</u> <u>N</u> <u>H</u> <u>K</u> <u>P</u> <u>S</u> <u>N</u> <u>T</u> <u>K</u> <u>V</u> <u>D</u> <u>K</u> <u>K</u> <u>V</u> <u>E</u> <u>F</u> <u>K</u> <u>S</u> <u>C</u> <u>D</u> <u>K</u> <u>T</u> <u>H</u> <u>T</u> <u>C</u> <u>P</u> <u>P</u> <u>C</u> <u>P</u> <u>A</u> <u>P</u> <u>E</u> <u>L</u> <u>L</u> <u>G</u> <u>G</u>					
BAP150.24-02-HC						
BAP150.24-05-HC						
BAP150.24-06-HC						
BAP150.24-07-HC						
BAP150.24-08-HC						

	250	260	270	280	290	300
BAP150.24-WT-HC	<u>PSVFL</u> <u>F</u> <u>P</u> <u>P</u> <u>K</u> <u>P</u> <u>K</u> <u>D</u> <u>T</u> <u>L</u> <u>M</u> <u>I</u> <u>S</u> <u>R</u> <u>T</u> <u>P</u> <u>E</u> <u>V</u> <u>T</u> <u>C</u> <u>V</u> <u>V</u> <u>D</u> <u>V</u> <u>S</u> <u>H</u> <u>E</u> <u>D</u> <u>P</u> <u>E</u> <u>V</u> <u>K</u> <u>F</u> <u>N</u> <u>W</u> <u>Y</u> <u>V</u> <u>D</u> <u>G</u> <u>V</u> <u>E</u> <u>V</u> <u>H</u> <u>N</u> <u>A</u> <u>K</u> <u>T</u> <u>K</u> <u>P</u> <u>R</u> <u>E</u> <u>E</u> <u>Q</u> <u>Y</u> <u>Q</u>					
BAP150.24-02-HC						
BAP150.24-05-HC						
BAP150.24-06-HC						
BAP150.24-07-HC						
BAP150.24-08-HC						

	310	320	330	340	350	360
BAP150.24-WT-HC	<u>STYR</u> <u>V</u> <u>V</u> <u>S</u> <u>V</u> <u>L</u> <u>T</u> <u>V</u> <u>L</u> <u>H</u> <u>Q</u> <u>D</u> <u>W</u> <u>L</u> <u>N</u> <u>G</u> <u>K</u> <u>E</u> <u>Y</u> <u>K</u> <u>C</u> <u>K</u> <u>V</u> <u>S</u> <u>N</u> <u>K</u> <u>A</u> <u>L</u> <u>P</u> <u>A</u> <u>P</u> <u>I</u> <u>E</u> <u>K</u> <u>T</u> <u>I</u> <u>S</u> <u>K</u> <u>A</u> <u>K</u> <u>Q</u> <u>P</u> <u>R</u> <u>E</u> <u>P</u> <u>Q</u> <u>V</u> <u>Y</u> <u>T</u> <u>L</u> <u>P</u> <u>P</u> <u>S</u> <u>R</u> <u>D</u> <u>E</u>					
BAP150.24-02-HC						
BAP150.24-05-HC						
BAP150.24-06-HC						
BAP150.24-07-HC						
BAP150.24-08-HC						

```

          370          380          390          400          410          420
Bap150.24-WT-HC      LTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSGDGSFFLYSKLTVDKSRW
BAP150.24-02-HC      .....
BAP150.24-05-HC      .....
BAP150.24-06-HC      .....
BAP150.24-07-HC      .....
BAP150.24-08-HC      .....

          430          440          450
Bap150.24-WT-HC      QQGNVFCSCVMHEALHNHYTQKSLSLSPGK
BAP150.24-02-HC      .....
BAP150.24-05-HC      .....
BAP150.24-06-HC      .....
BAP150.24-07-HC      .....
BAP150.24-08-HC      .....

```

FIG. 11A

	10	20	30	40	50	60
BAP150.24-WT-LC	DIQMTQSPSSLSASVGDRTTITCRASQDVNTAVAWYQOKPGKAPKLLIYSASFLYSGVPS					
BAP150.24-BF11-LC	D.....					
BAP150.24-BF15-LC	D.....					
BAP150.24-BF19-LC	D.....					
BAP150.24-BF39-LC	D.....					
BAP150.24-BF40-LC	D.....					
BAP150.24-BF42-LC	D.....					
BAP150.24-BF45-LC	D.....					
BAP150.24-BF46-LC	D.....					

	70	80	90	100	110	120
BAP150.24-WT-LC	RFGSGRSGTDFTLTISSLQPEDFATYYCQQHYTTEFTPGQGTKEIKRTVAAPSVFIFPP					
BAP150.24-BF11-LC						
BAP150.24-BF15-LC						
BAP150.24-BF19-LC						
BAP150.24-BF39-LC						
BAP150.24-BF40-LC						
BAP150.24-BF42-LC						
BAP150.24-BF45-LC						
BAP150.24-BF46-LC						

	130	140	150	160	170	180
BAP150.24-WT-LC	SDEQLKSGTASVVCLLNNFYFREAKVQWKVDNALQSGNSQESVTEQDSNDSTYLSSTLT					
BAP150.24-BF11-LC						
BAP150.24-BF15-LC						
BAP150.24-BF19-LC						
BAP150.24-BF39-LC						
BAP150.24-BF40-LC						
BAP150.24-BF42-LC						
BAP150.24-BF45-LC						
BAP150.24-BF46-LC						

	190	200	210	220	230	240
BAP150.24-WT-LC	LSKADYEKHKVYACEVTHQGLSSPVTKSFNRGECRSRGGGGEVQLVESGGGLVQPGGSLR					
BAP150.24-BF11-LC						
BAP150.24-BF15-LC						
BAP150.24-BF19-LC						
BAP150.24-BF39-LC						
BAP150.24-BF40-LC						
BAP150.24-BF42-LC						
BAP150.24-BF45-LC						
BAP150.24-BF46-LC						

FIG. 11A (Continued)

```

                250      260      270      280      290      300
.....|.....|.....|.....|.....|.....|.....|.....|.....|
BAP150.24-WT-LC  LSQAASGFTTFNTYAMNWRQAPGEGLEWVARIRSKYNNYATYYADSVKDRPTISRDDSKN
BAP150.24-BF11-LC .....
BAP150.24-BF15-LC .....
BAP150.24-BF19-LC .....
BAP150.24-BF39-LC .....
BAP150.24-BF40-LC .....
BAP150.24-BF42-LC .....
BAP150.24-BF45-LC .....
BAP150.24-BF46-LC .....

                310      320      330      340      350      360
.....|.....|.....|.....|.....|.....|.....|.....|.....|
BAP150.24-WT-LC  SLYLQNSLKTEDTAVYYCVRHGNFGNSYVSWFAYWGQGLVTVSSGGSGGSGGSGGSGG
BAP150.24-BF11-LC .....S.....K.....
BAP150.24-BF15-LC .....K.....Q.....
BAP150.24-BF19-LC .....P.....K.....Q.....
BAP150.24-BF39-LC .....A.....K.....
BAP150.24-BF40-LC .....P.....K.....
BAP150.24-BF42-LC .....T.....K.....
BAP150.24-BF45-LC .....S.....K.....
BAP150.24-BF46-LC .....T.....K.....

                370      380      390      400      410      420
.....|.....|.....|.....|.....|.....|.....|.....|.....|
BAP150.24-WT-LC  QAVVTQEPSTLTVSPGGTVTLTCSRSTGAVTTSNYANWVQQKPGQAPRGLIGGTNRKAPWT
BAP150.24-BF11-LC .....D.....
BAP150.24-BF15-LC .....D.....
BAP150.24-BF19-LC .....D.....
BAP150.24-BF39-LC .....D.....
BAP150.24-BF40-LC .....D.....
BAP150.24-BF42-LC .....D.....
BAP150.24-BF45-LC .....A.....D.....
BAP150.24-BF46-LC .....A.....D.....

                430      440      450      460      470
.....|.....|.....|.....|.....|.....|.....|.....|.....|
BAP150.24-WT-LC  PARFSGSLLGGKAALTITGAQREDEADYYCALWYSNLWVFGGGTKLTVLGR
BAP150.24-BF11-LC .....
BAP150.24-BF15-LC .....
BAP150.24-BF19-LC .....
BAP150.24-BF39-LC .....
BAP150.24-BF40-LC .....
BAP150.24-BF42-LC .....
BAP150.24-BF45-LC .....
BAP150.24-BF46-LC .....
```

FIG. 12

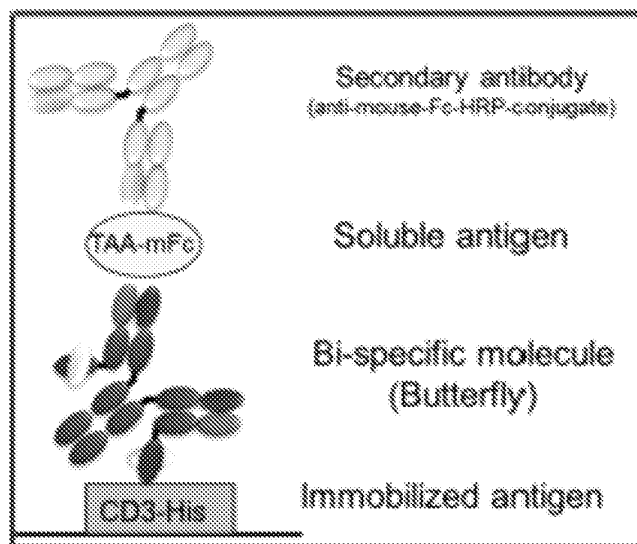


FIG. 13A

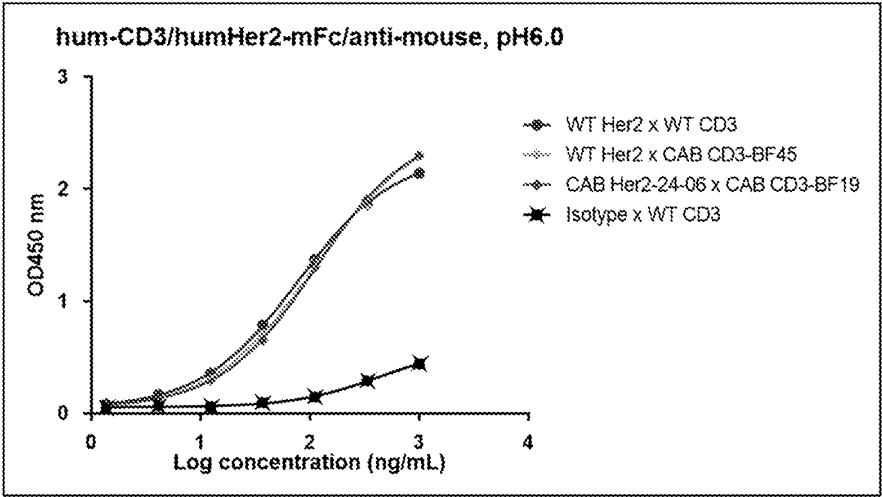


FIG. 13B

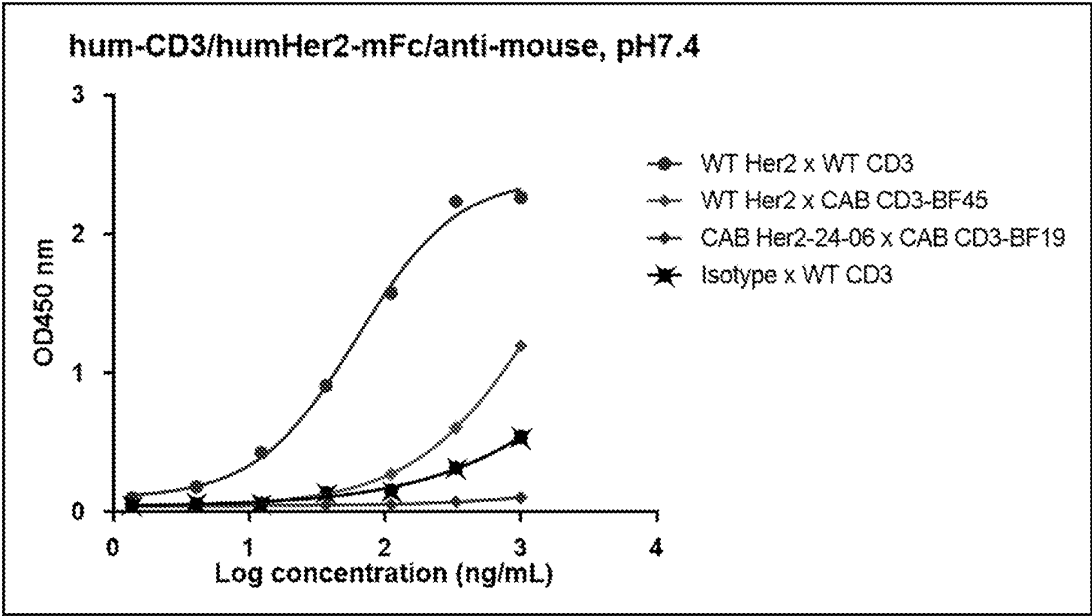


FIG. 13C

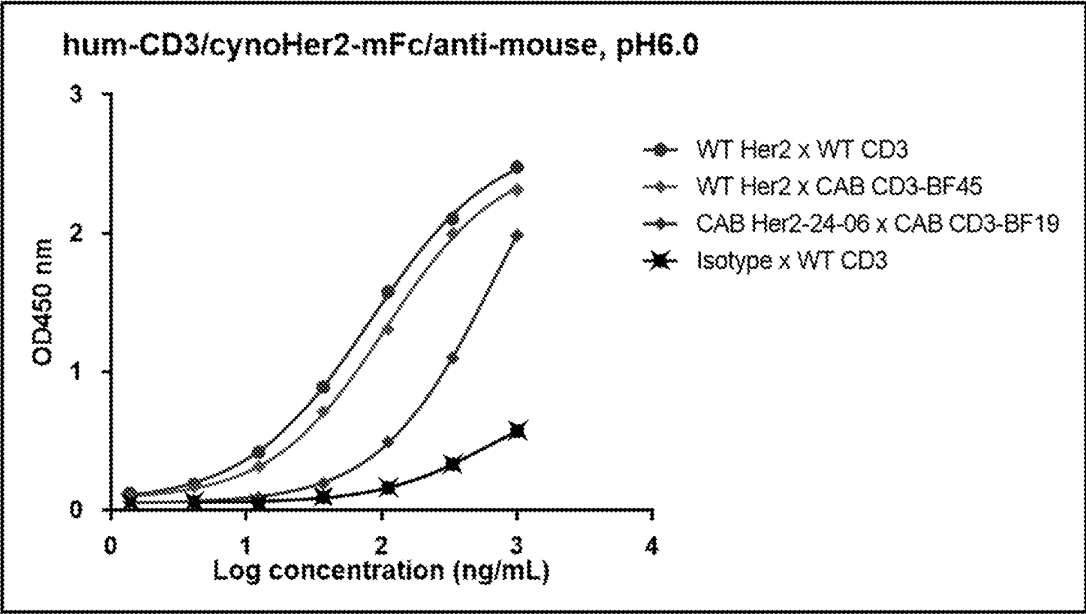


FIG. 13D

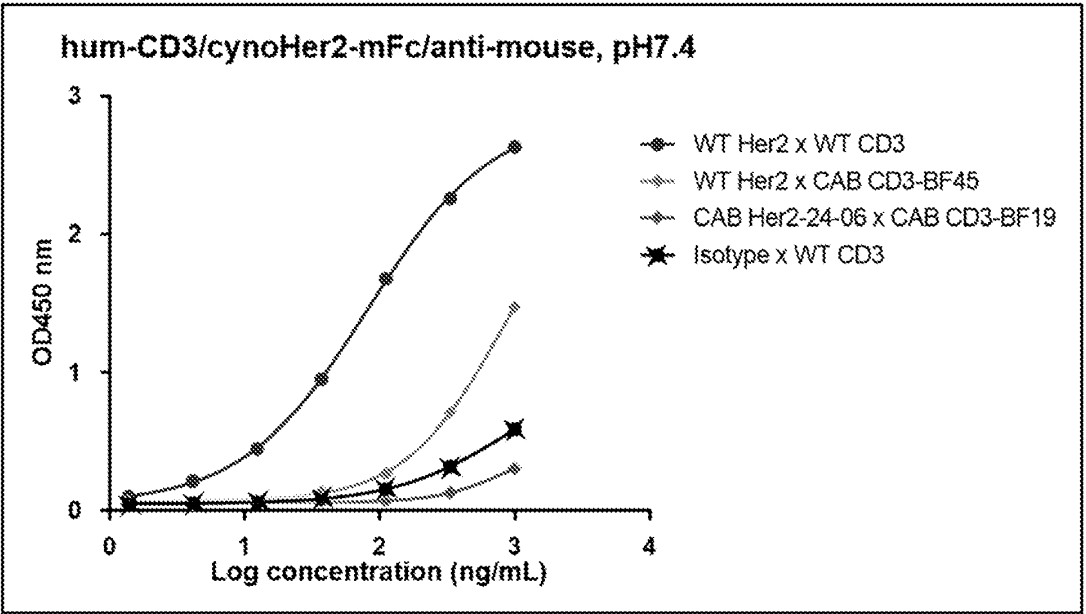


FIG. 14

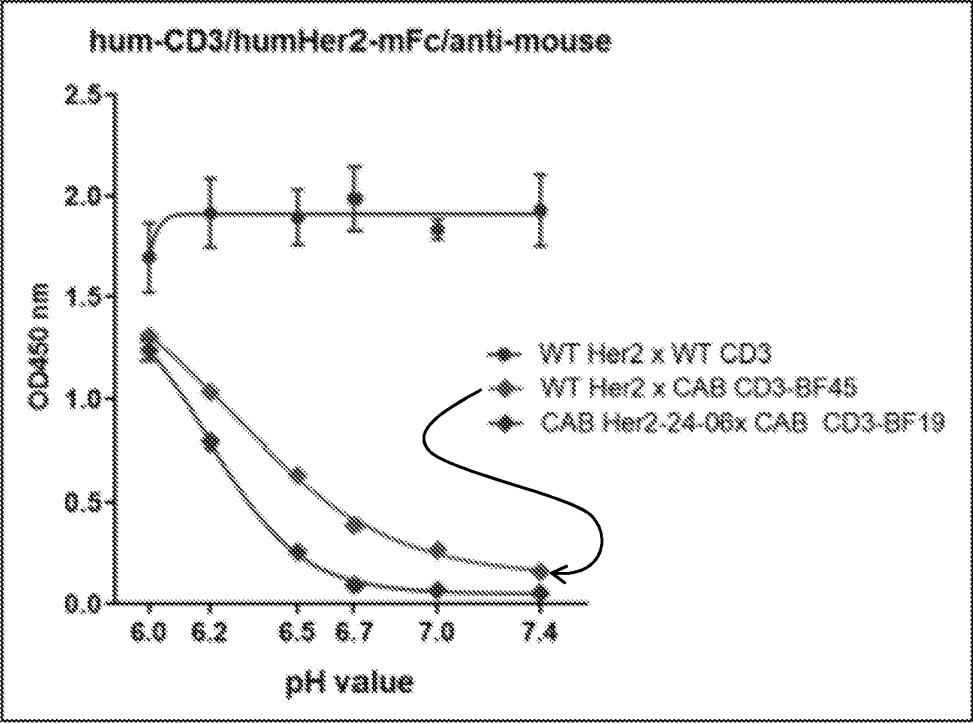


FIG. 15A

WT Her2 x WT CD3

Ligand: huHer2-His

pH 6.0

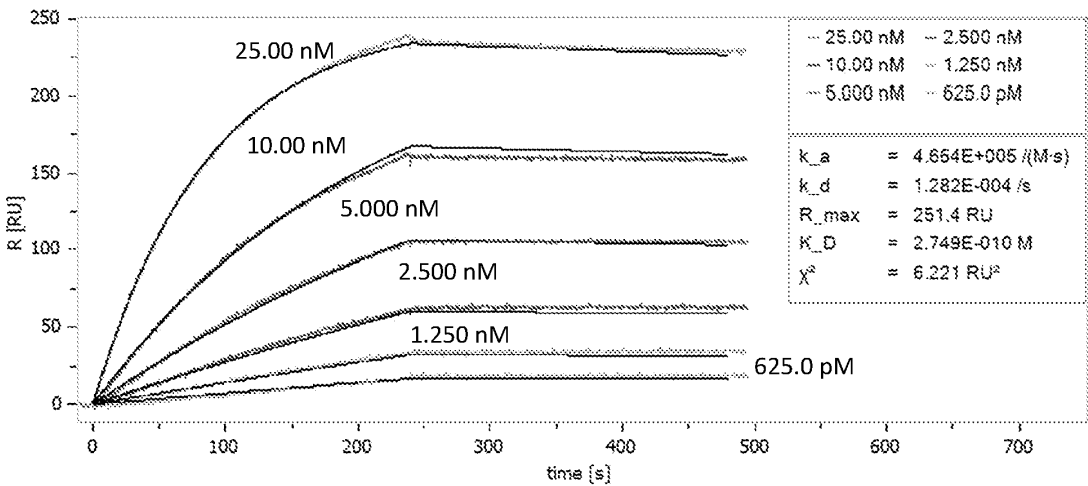


FIG. 15B

WT Her2 x WT CD3

Ligand: cynoHer2-His

pH 6.0

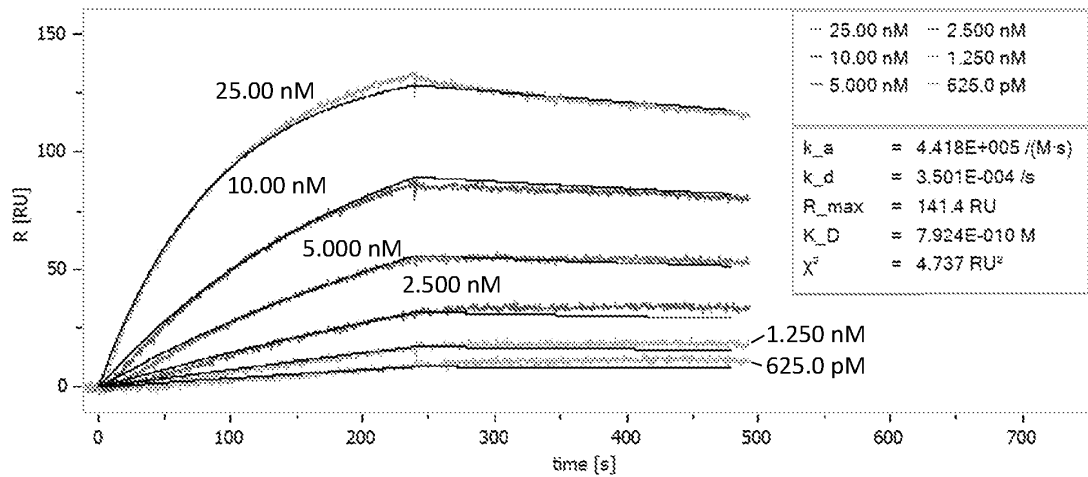


FIG. 15C

WT Her2 x WT CD3

Ligand: huCD3-His

pH 6.0

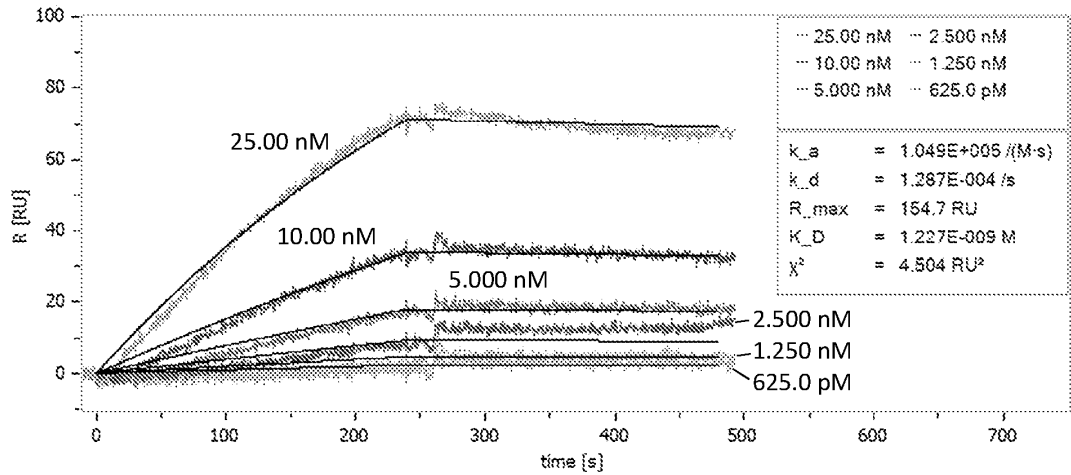


FIG. 15D

WT Her2 x WT CD3

Ligand: huHer2-His

pH 6.5

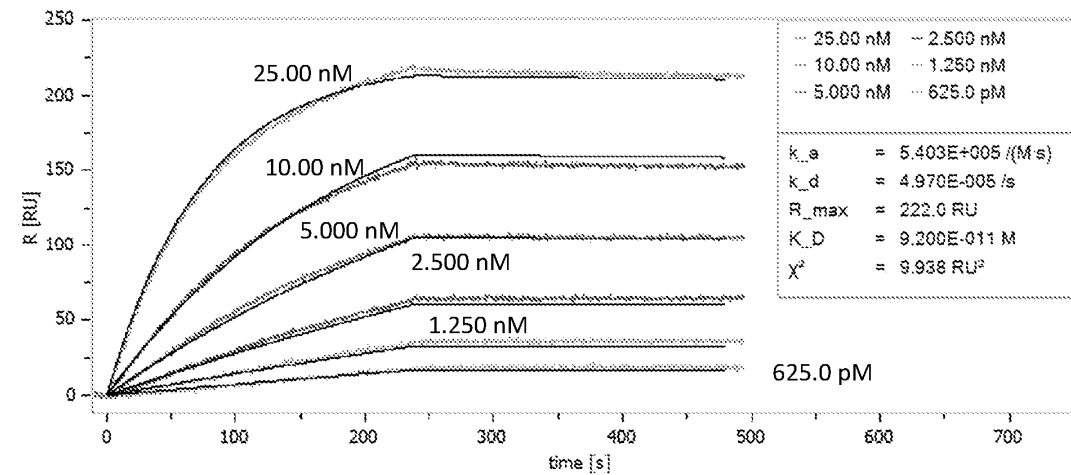


FIG. 15E

WT Her2 x WT CD3

Ligand: cynoHer2-His

pH 6.5

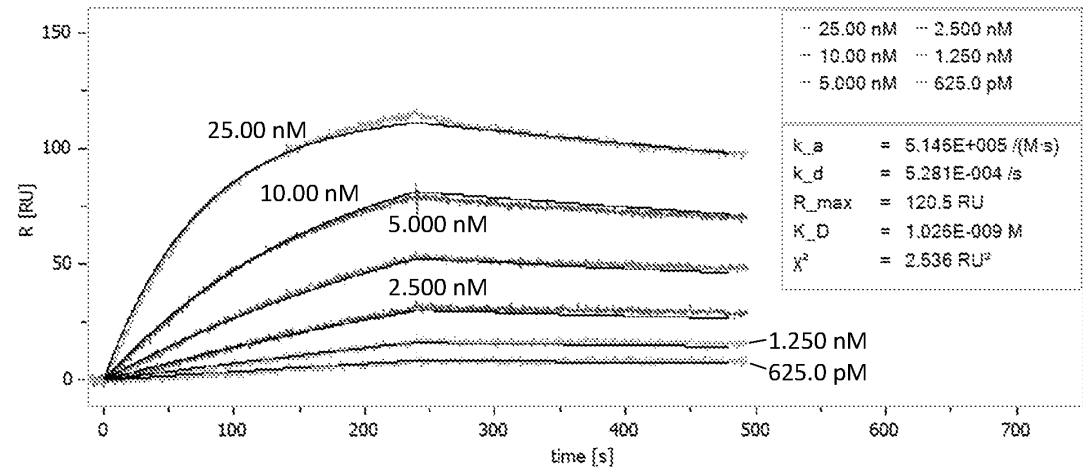


FIG. 15F

WT Her2 x WT CD3

Ligand: huCD3-His

pH 6.5

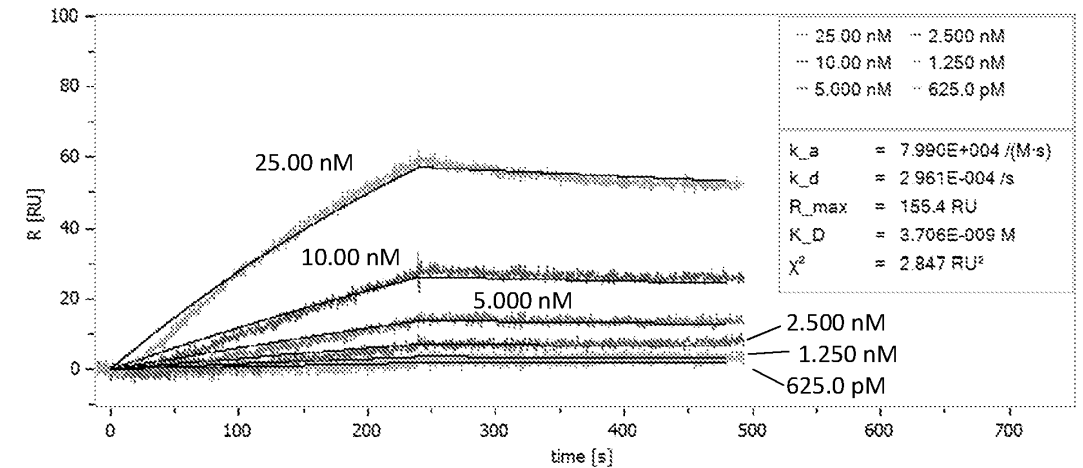


FIG. 15G

WT Her2 x WT CD3
Ligand: huHer2-His

pH 7.4

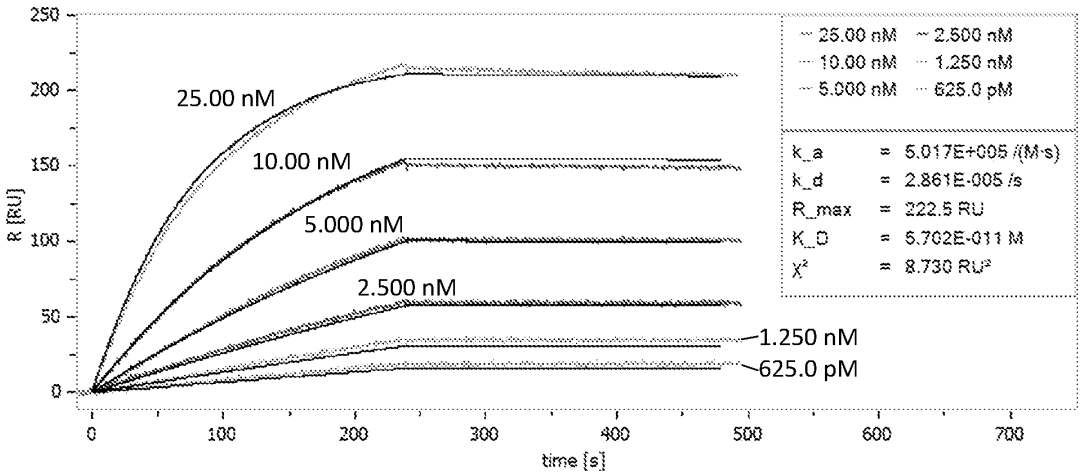


FIG. 15H

WT Her2 x WT CD3
Ligand: cynoHer2-His

pH 7.4

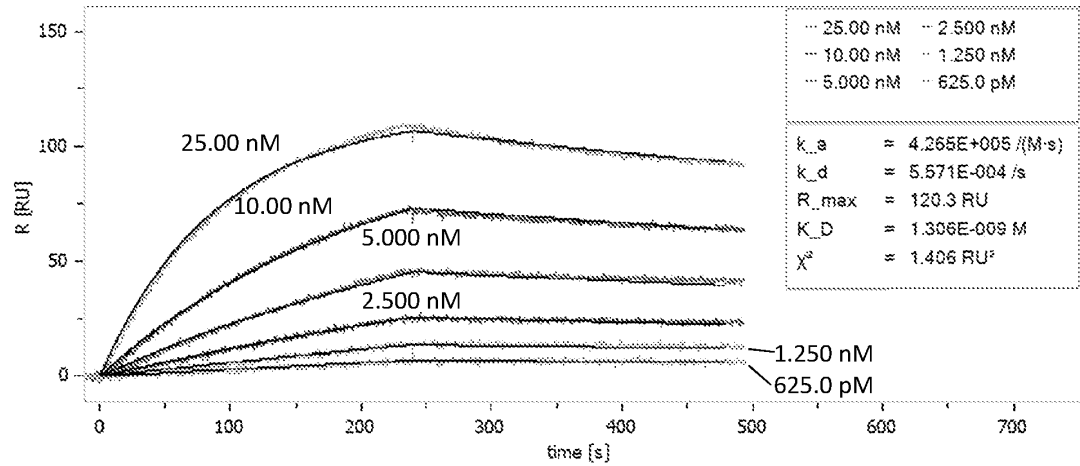


FIG. 15I

WT Her2 x WT CD3

Ligand: huCD3-His

pH 7.4

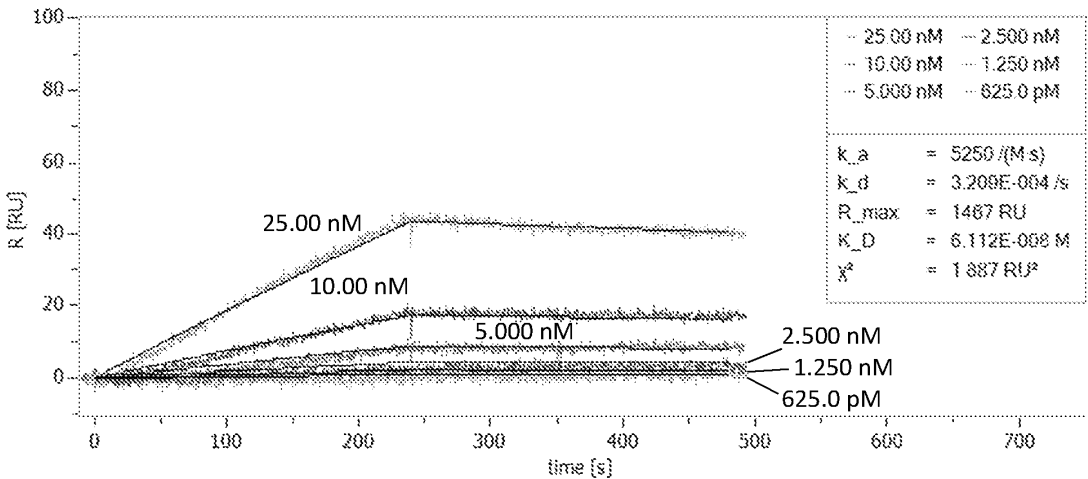


FIG. 16A

WT Her2 x CAB CD3-BF-45

Ligand: huHer2-His

pH 6.0

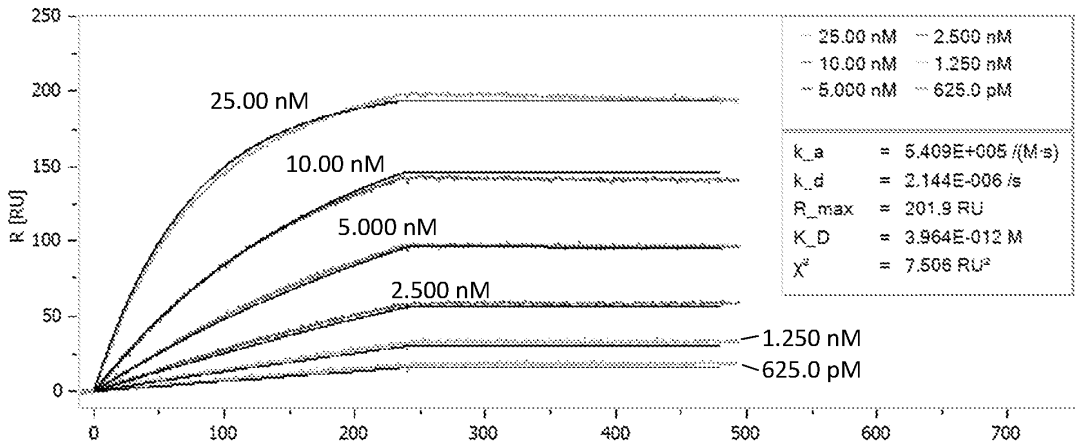


FIG. 16B

WT Her2 x CAB CD3-BF-45

Ligand: cynoHer2-His

pH 6.0

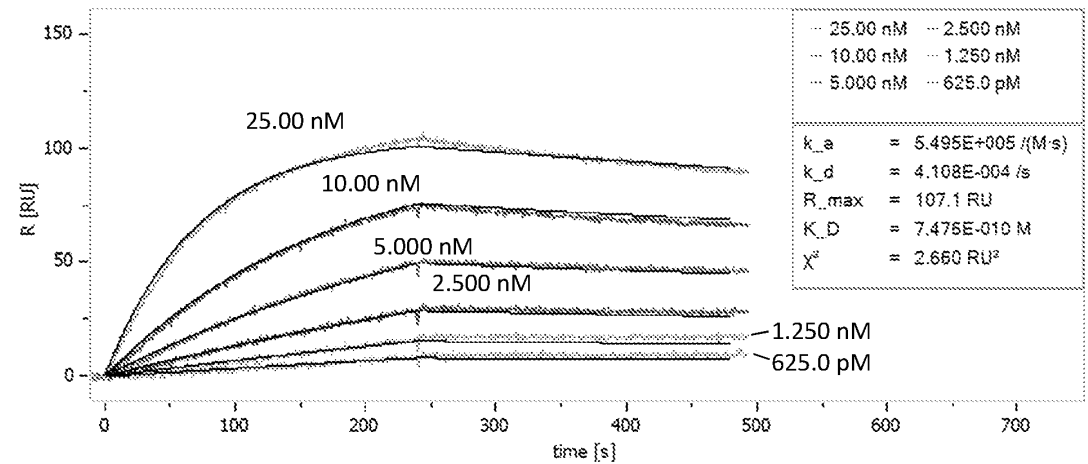


FIG. 16C

WT Her2 x CAB CD3-BF-45

Ligand: huCD3-His

pH 6.0

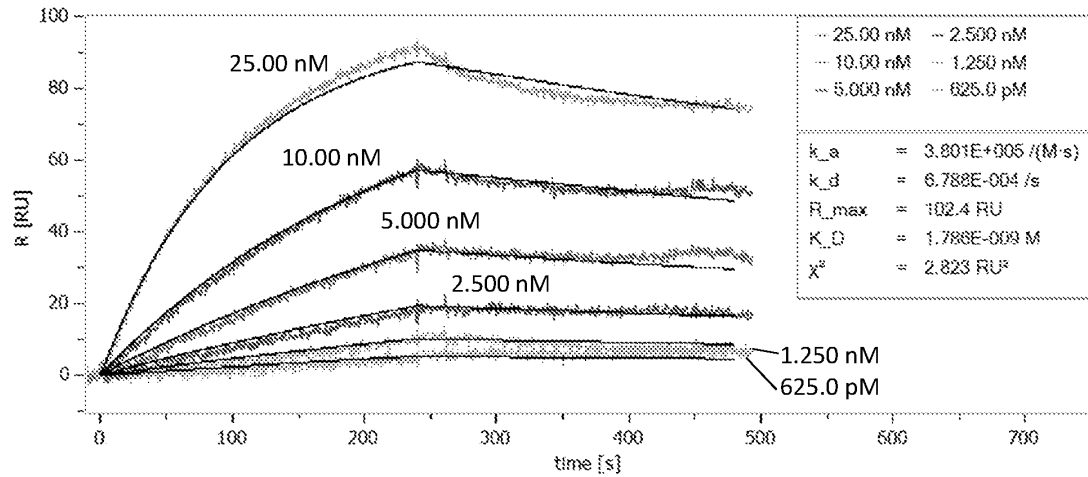


FIG. 16D

WT Her2 x CAB CD3-BF-45
Ligand: huHer2-His

pH 6.5

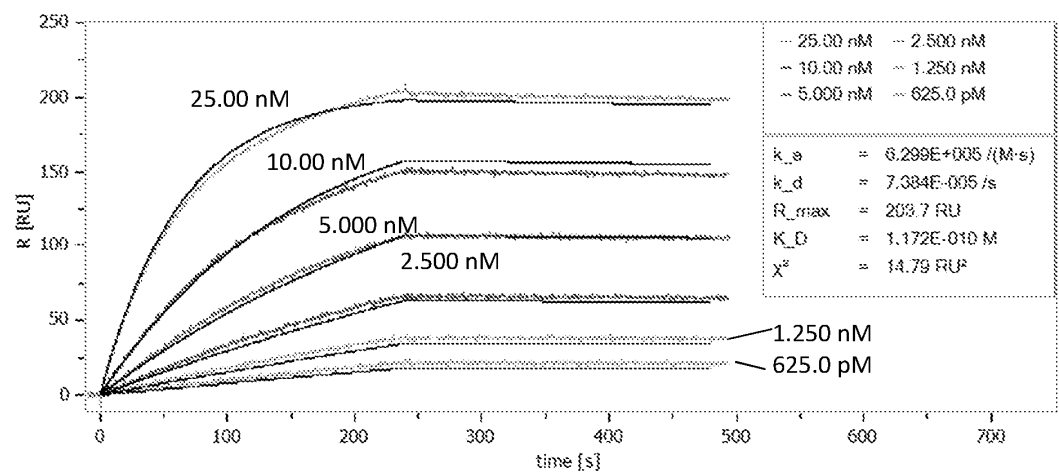


FIG. 16E

WT Her2 x CAB CD3-BF-45
Ligand: cynoHer2-His

pH 6.5

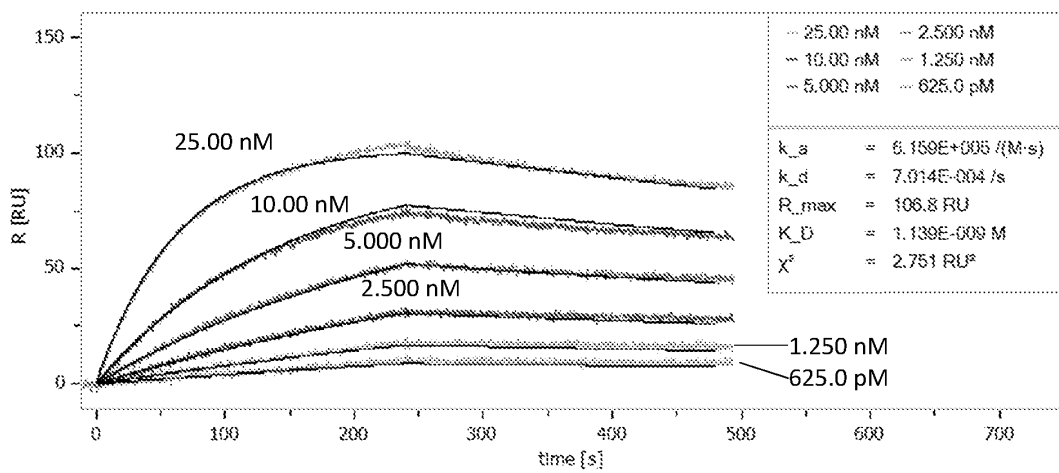


FIG. 16F

WT Her2 x CAB CD3-BF-45

Ligand: huCD3-His

pH 6.5

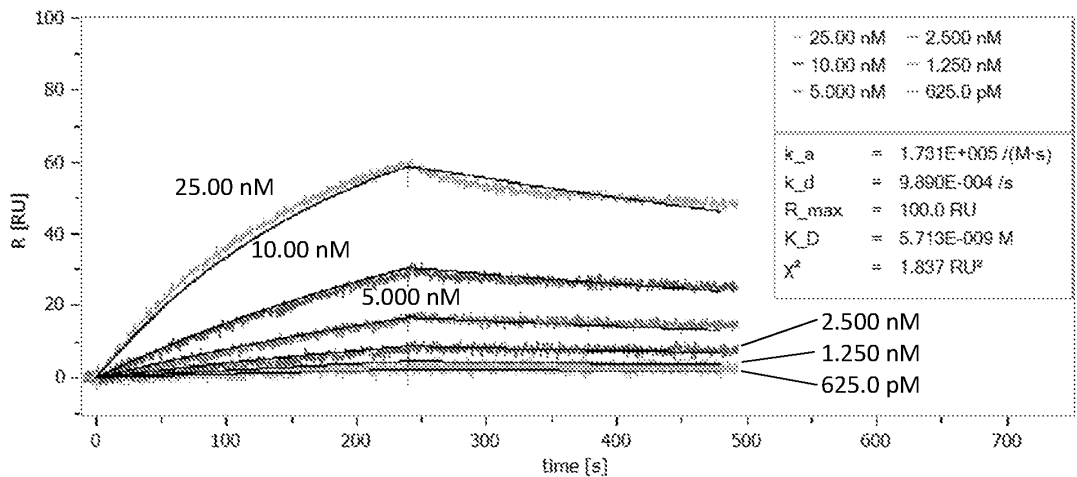


FIG. 16G

WT Her2 x CAB CD3-BF45

Ligand: huHer2-His

pH 7.4

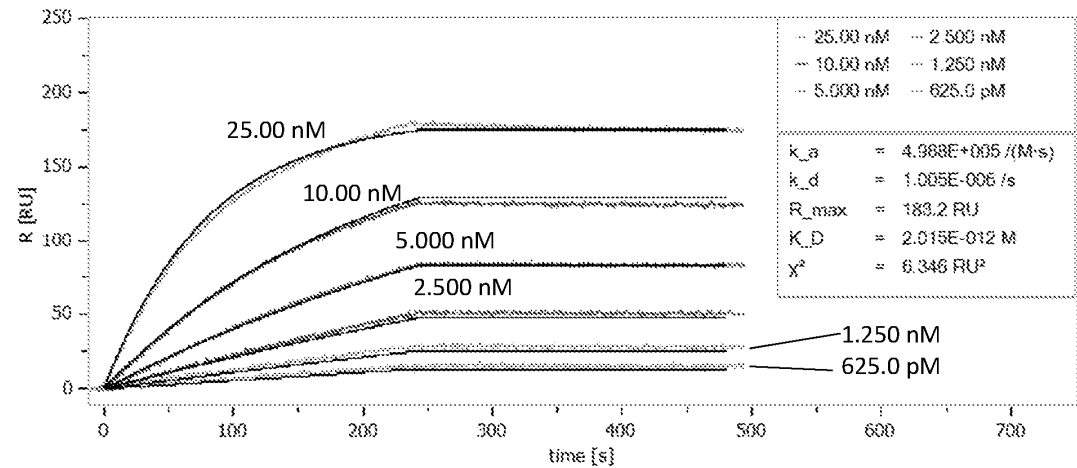


FIG. 16H

WT Her2 x CAB CD3-BF-45
Ligand: cynoHer2-His

pH 7.4

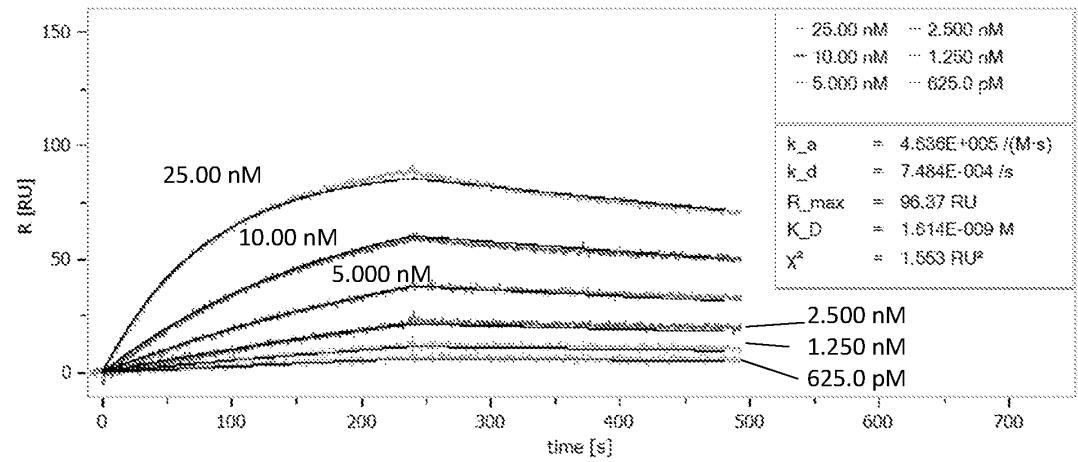


FIG. 16I

WT Her2 x CAB CD3-BF-45
Ligand: huCD3-His

pH 7.4

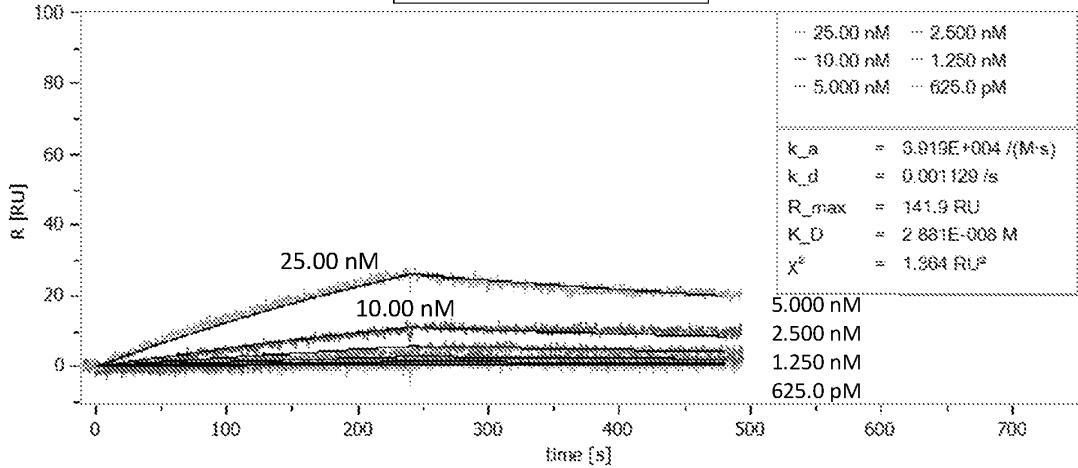


FIG. 17A

CAB Her2-24-06 x CAB CD3-BF-19
Ligand: huHer2-His

pH 6.0

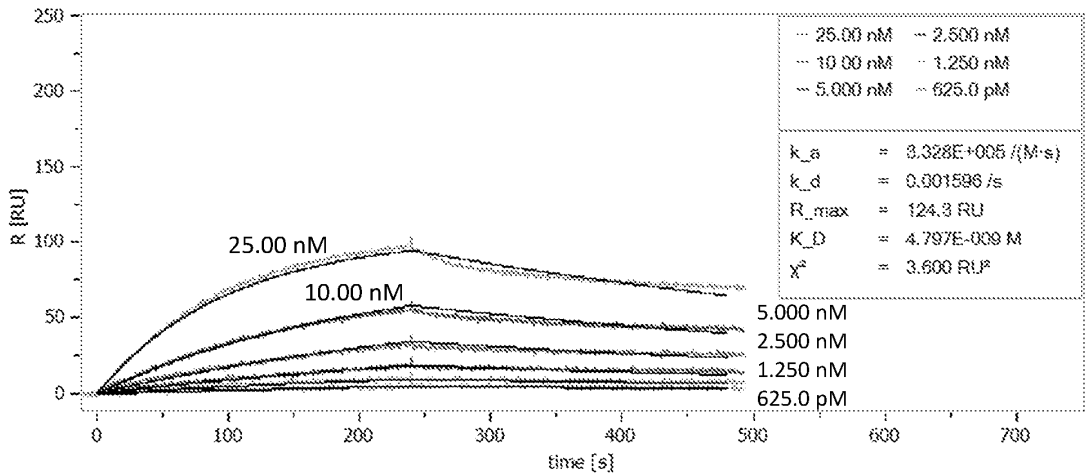


FIG. 17B

CAB Her2-24-06 x CAB CD3-BF-19
Ligand: cynoHer2-His

pH 6.0

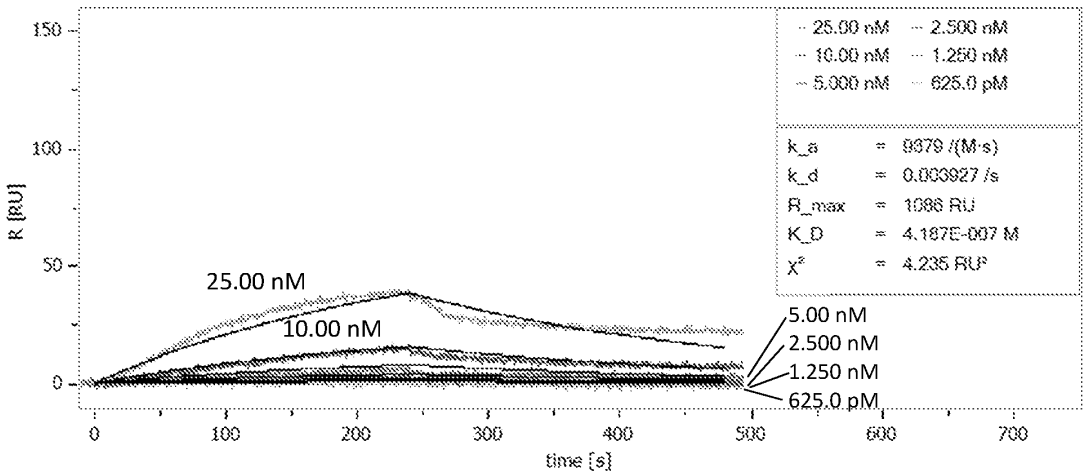


FIG. 17C

CAB Her2-24-06 x CAB CD3-BF-19

Ligand: huCD3-His

pH 6.0

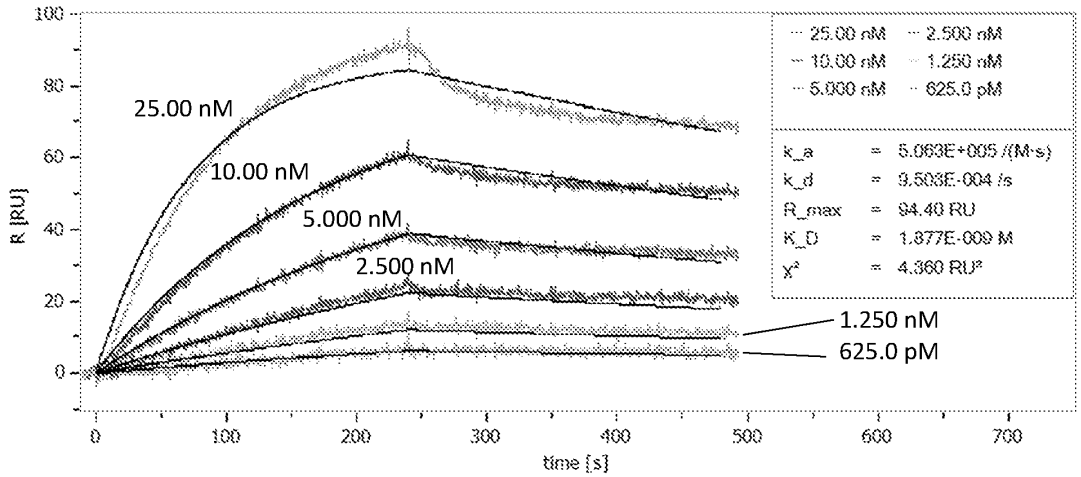


FIG. 17D

CAB Her2-24-06 x CAB CD3-BF-19

Ligand: huHer2-His

pH 6.5

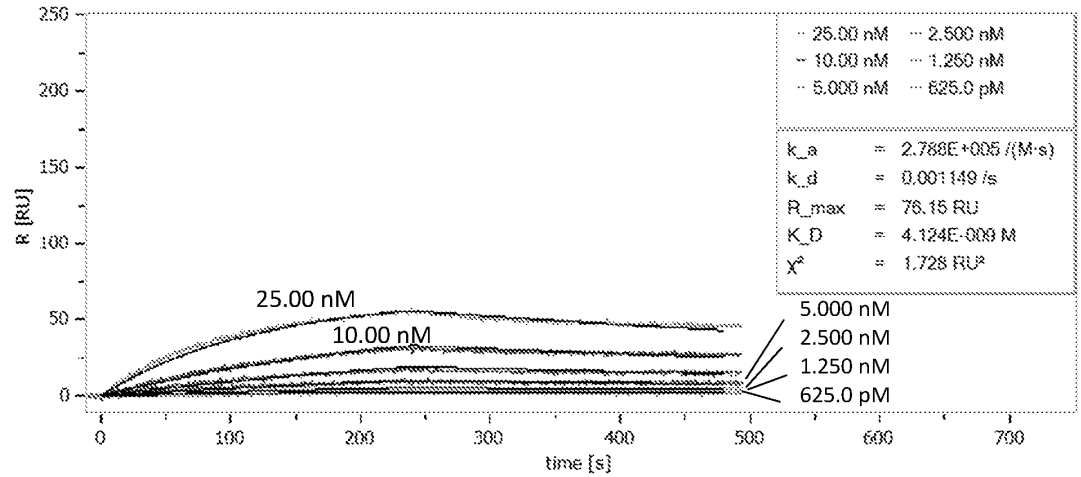


FIG. 17E

CAB Her2-24-06 x CAB CD3-BF-19
Ligand: cynoHer2-His

pH 6.5

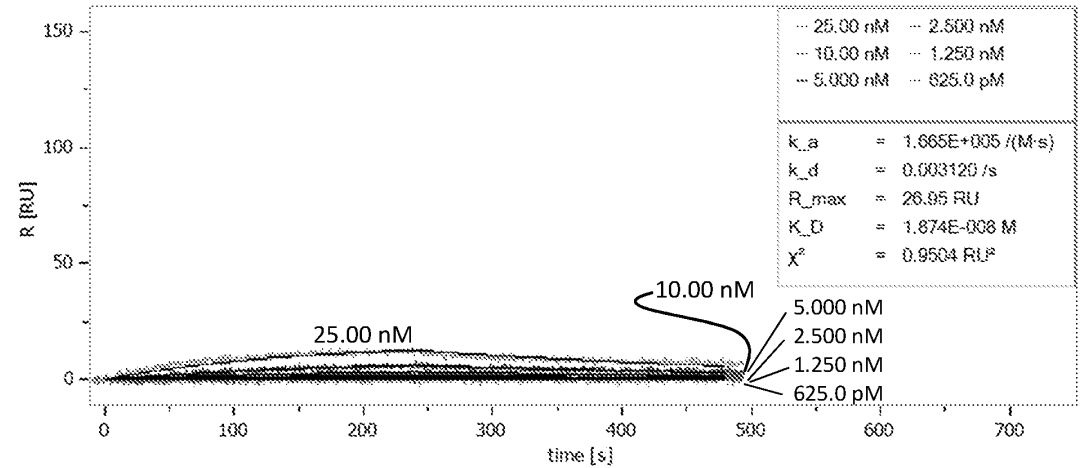


FIG. 17F

CAB Her2-24-06 x CAB CD3-BF-19
Ligand: huCD3-His

pH 6.5

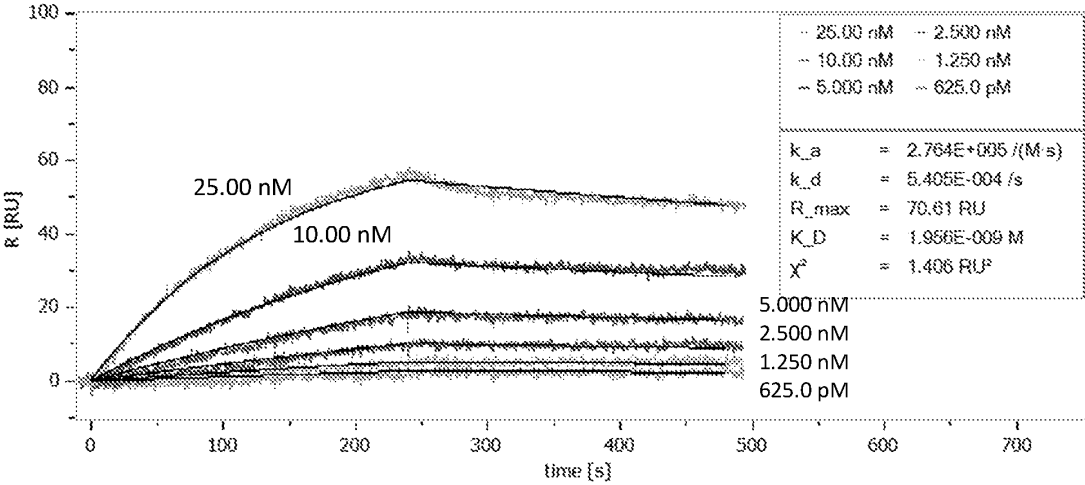


FIG. 17G

CAB Her2-24-06 x CAB CD3-BF-19
Ligand: huHer2-His

pH 7.4

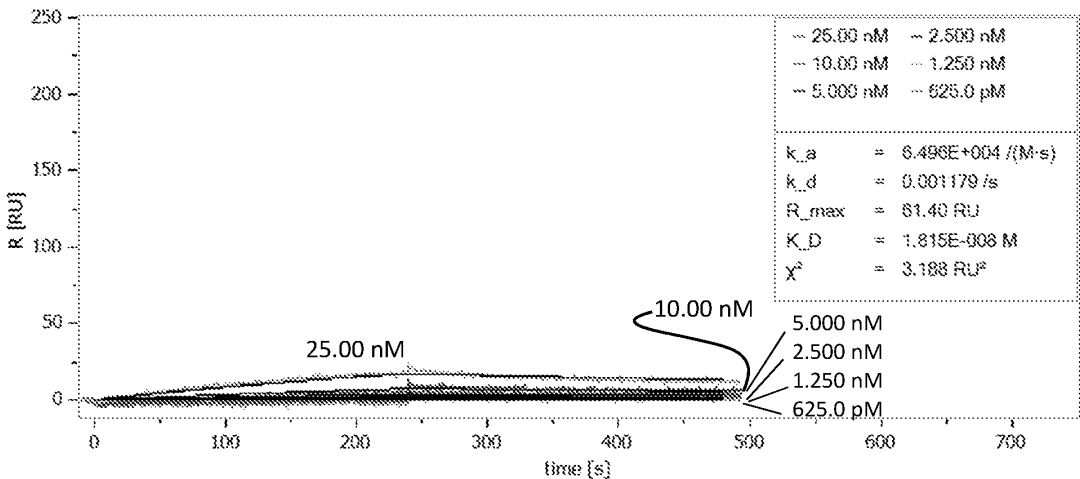
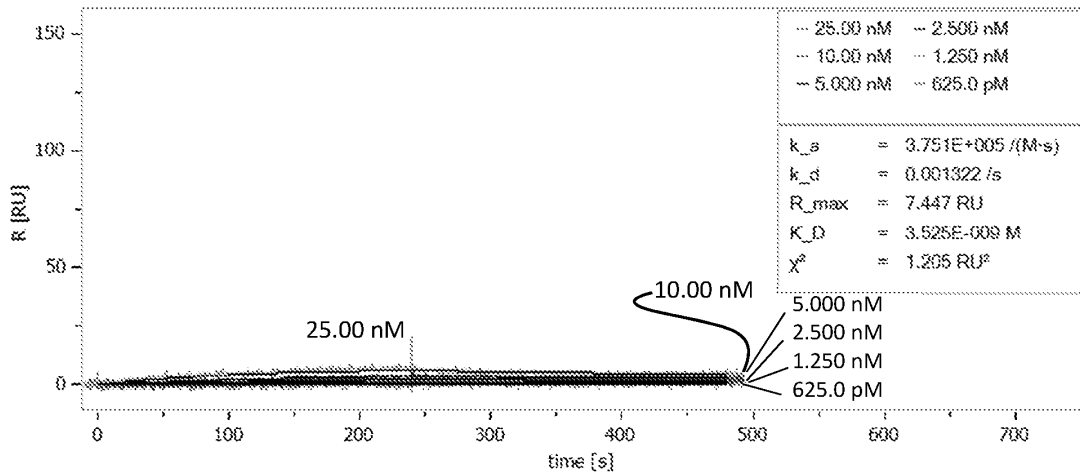


FIG. 17H

CAB Her2-24-06 x CAB CD3-BF-19
Ligand: cynoHer2-His

pH 7.4



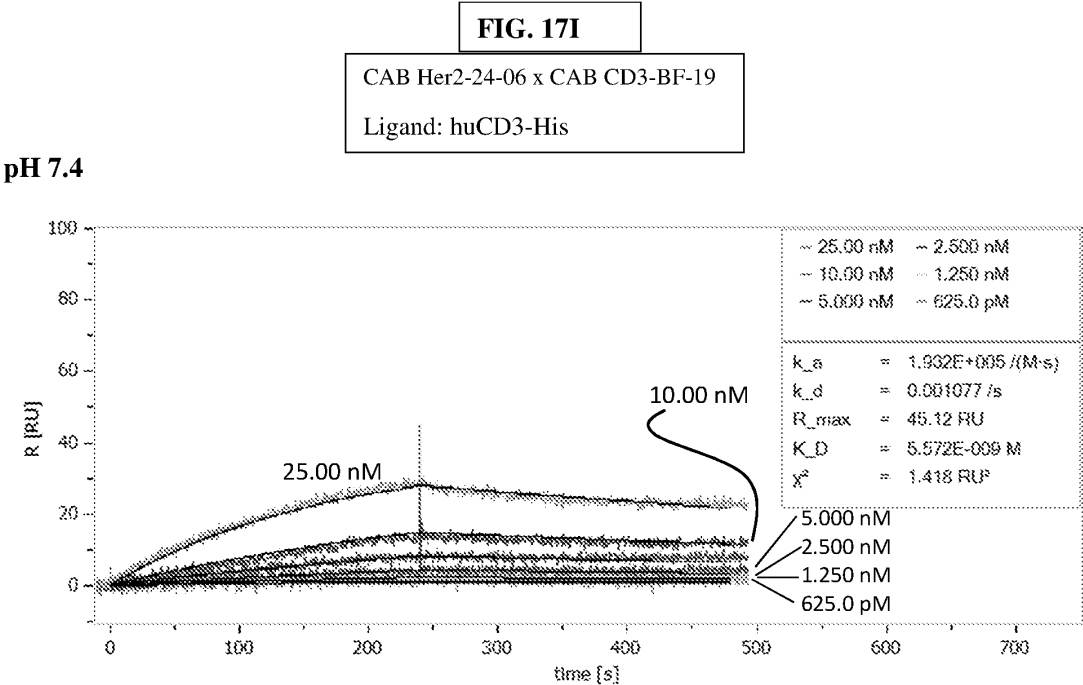


Figure 18

