

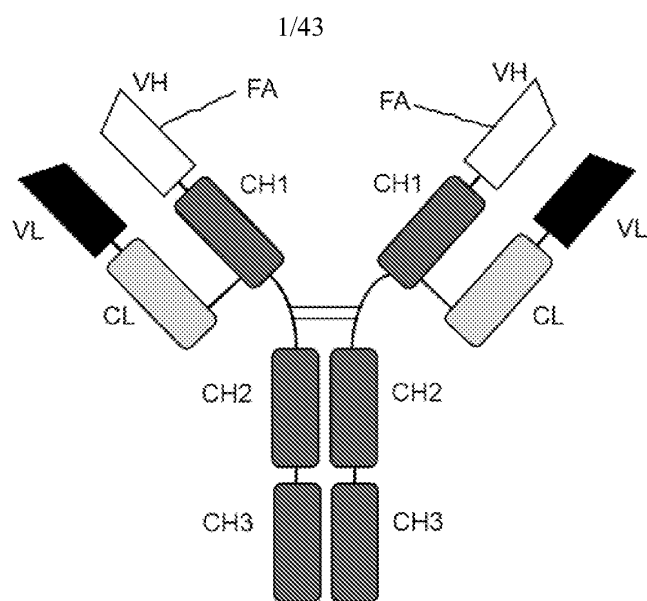


FIG. 1A

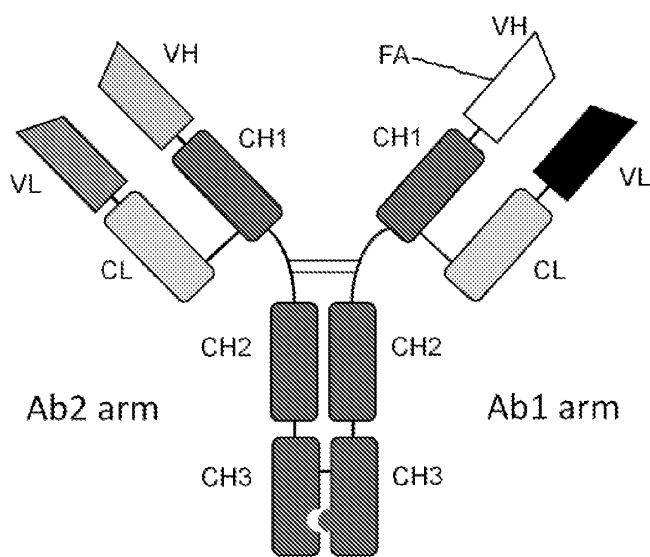


FIG. 1B

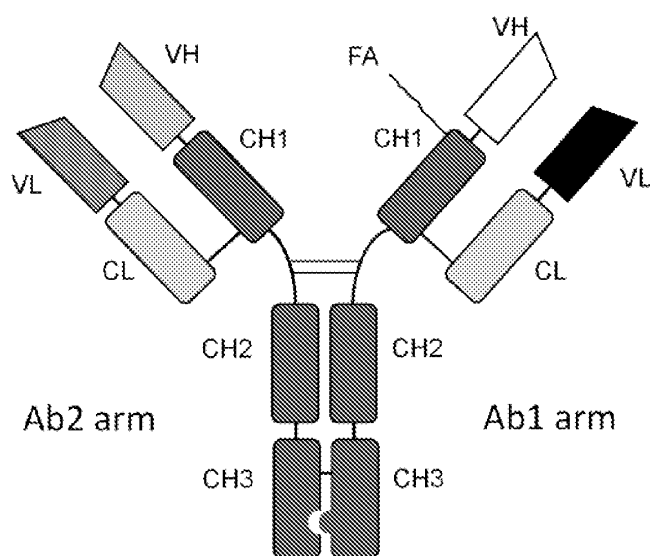


FIG. 1C

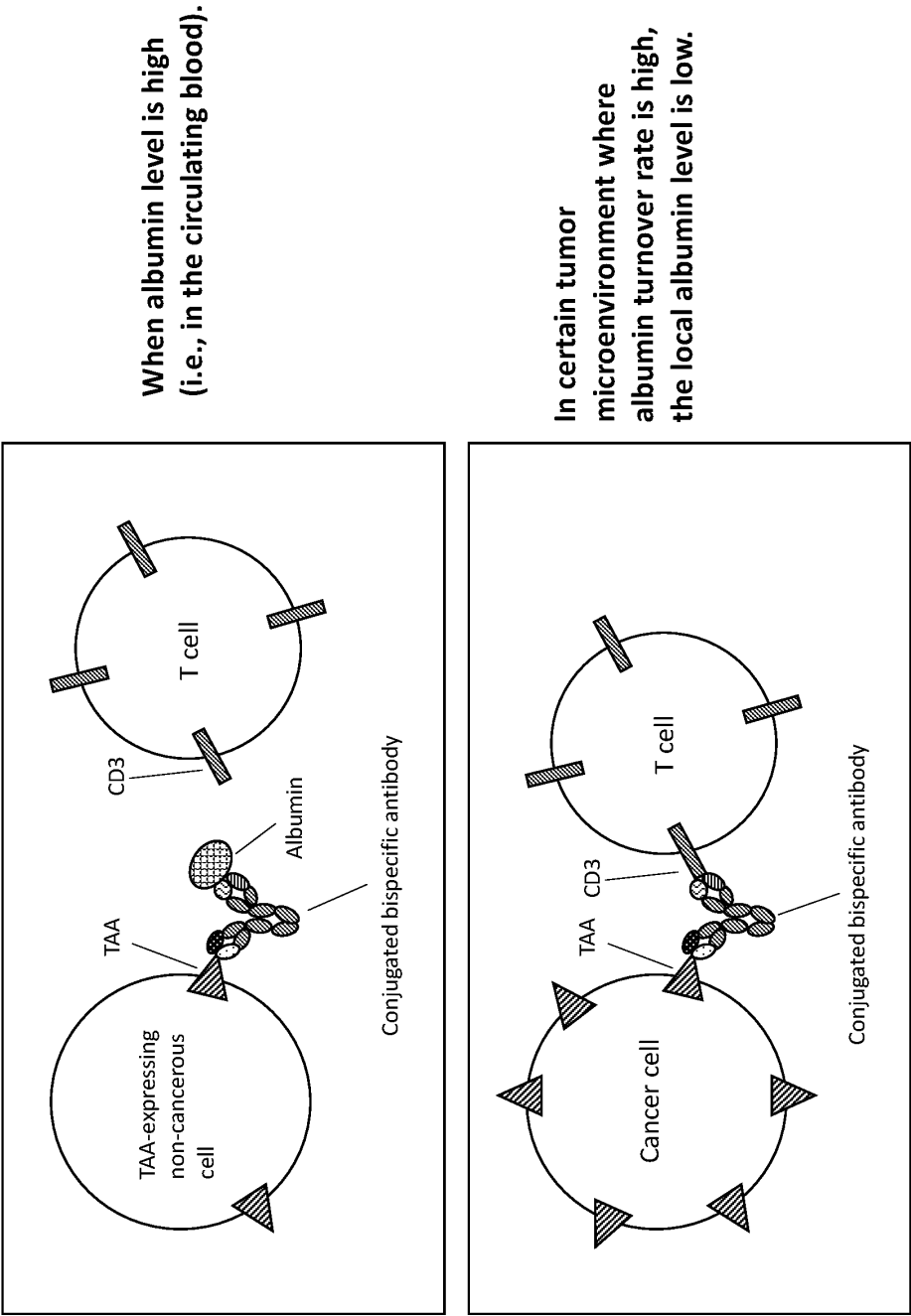


FIG. 1D

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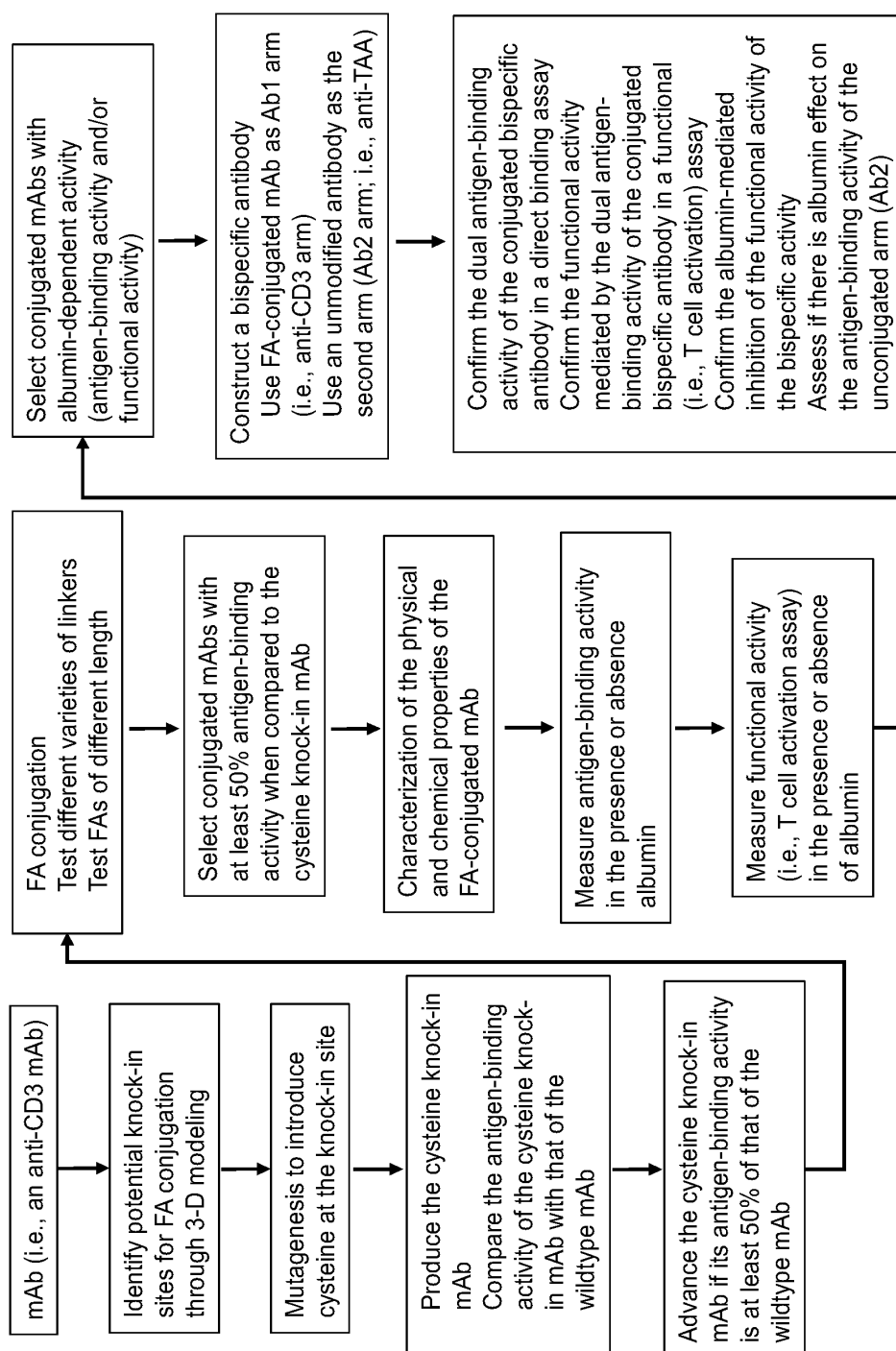


FIG. 1E

|              |   |     |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------|---|-----|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Region       |   | FR1 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Kabat number | 1 | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  |
| Anti-CD3 VH  | D | I   | K | L | Q | Q | S | G | A | E  | L  | A  | R  | P  | G  | A  | S  | V  | K  | M  | S  | C  | K  | T  |  |

|              |    |      |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |  |
|--------------|----|------|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|--|
| Region       |    | CDR1 |    |    |    |    |    |    |    |    |    |    |    | FR2 |    |    |    |    |    |    |    |    |    |    |  |
| Kabat number | 25 | 26   | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38  | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |  |
| Anti-CD3 VH  | S  | G    | Y  | T  | F  | T  | R  | Y  | T  | M  | H  | W  | V  | K   | Q  | R  | P  | G  | Q  | G  | L  | E  | W  | I  |  |

|              |    |      |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |  |
|--------------|----|------|----|----|-----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|--|
| Region       |    | CDR2 |    |    |     |    |    |    |    |    |    |    |    | FR3 |    |    |    |    |    |    |    |    |    |    |  |
| Kabat number | 49 | 50   | 51 | 52 | 52a | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61  | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |  |
| Anti-CD3 VH  | G  | Y    | I  | N  | P   | S  | R  | G  | Y  | T  | N  | Y  | N  | Q   | K  | F  | K  | D  | K  | A  | T  | L  | T  | T  |  |

|              |    |     |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |   |
|--------------|----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|---|
| Region       |    | FR3 |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |   |
| Kabat number | 72 | 73  | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 82a | 82b | 82c | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 |   |
| Anti-CD3 VH  | D  | K   | S  | S  | S  | S  | T  | A  | Y  | M  | Q  | L   | S   | S   | L  | T  | S  | E  | D  | S  | A  | V  | Y  | Y  | C |

|              |    |      |    |    |    |    |    |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|--------------|----|------|----|----|----|----|----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Region       |    | CDR3 |    |    |    |    |    |     |      |      |     |     |     | FR4 |     |     |     |     |     |     |     |     |     |  |  |
| Kabat number | 93 | 94   | 95 | 96 | 97 | 98 | 99 | 100 | 100a | 100b | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 |  |  |
| Anti-CD3 VH  | A  | R    | Y  | Y  | D  | D  | H  | Y   | S    | L    | D   | Y   | W   | G   | Q   | G   | T   | T   | L   | T   | V   | S   | S   |  |  |

FIG. 2A

|              |   |     |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |
|--------------|---|-----|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|
| Region       |   | FR1 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | CDR1 |    |    |
| Kabat number | 1 | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22   | 23 | 24 |
| Anti-CD3 VL  | D | I   | Q | L | T | Q | S | P | A | I  | M  | S  | A  | S  | P  | G  | E  | K  | V  | T  | M  | T    | C  | R  |

|              |    |      |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |      |    |    |
|--------------|----|------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|------|----|----|
| Region       |    | CDR1 |    |    |    |    |    |    |    |    |    | FR2 |    |    |    |    |    |    |    |    |    | CDR2 |    |    |
| Kabat number | 25 | 26   | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36  | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46   | 47 | 48 |
| Anti-CD3 VL  | A  | S    | S  | S  | S  | V  | S  | Y  | M  | N  | W  | Y   | Q  | Q  | K  | S  | G  | T  | S  | P  | K  | R    | W  | I  |

|              |    |      |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |      |    |    |
|--------------|----|------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|------|----|----|
| Region       |    | CDR2 |    |    |    |    |    |    |    |    |    | FR3 |    |    |    |    |    |    |    |    |    | CDR3 |    |    |
| Kabat number | 49 | 50   | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70   | 71 | 72 |
| Anti-CD3 VL  | Y  | D    | T  | S  | K  | V  | A  | S  | E  | V  | P  | Y   | R  | F  | S  | G  | S  | G  | S  | G  | T  | S    | Y  | S  |

|              |    |     |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |      |    |    |
|--------------|----|-----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|------|----|----|
| Region       |    | FR3 |    |    |    |    |    |    |    |    |    | CDR3 |    |    |    |    |    |    |    |    |    | CDR3 |    |    |
| Kabat number | 73 | 74  | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84   | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94   | 95 | 96 |
| Anti-CD3 VL  | L  | T   | I  | S  | S  | M  | E  | A  | E  | D  | A  | A    | T  | Y  | Y  | C  | Q  | Q  | W  | S  | S  | N    | F  | L  |

|              |    |     |    |     |     |     |     |     |     |     |     |      |  |
|--------------|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| Region       |    | FR4 |    |     |     |     |     |     |     |     |     | CDR4 |  |
| Kabat number | 97 | 98  | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 |      |  |
| Anti-CD3 VL  | T  | F   | G  | A   | G   | T   | K   | L   | E   | L   | K   |      |  |

FIG. 2B

| Region    | CHI |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| EU number | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 |
| Igg1      | A   | S   | T   | K   | G   | P   | S   | V   | F   | P   | L   | A   | P   | S   | S   | K   | S   | T   | S   | G   | T   | A   | A   |     |
| Igg2      | A   | S   | T   | K   | G   | P   | S   | V   | F   | P   | L   | A   | P   | C   | S   | R   | S   | T   | S   | E   | S   | T   | A   | A   |
| Igg3      | A   | S   | T   | K   | G   | P   | S   | V   | F   | P   | L   | A   | P   | C   | S   | R   | S   | T   | S   | G   | T   | A   | A   | A   |
| Igg4      | A   | S   | T   | K   | G   | P   | S   | V   | F   | P   | L   | A   | P   | C   | S   | R   | S   | T   | S   | E   | S   | T   | A   | A   |

| Region    | CHI |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| EU number | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 |
| Igg1      | L   | G   | C   | L   | V   | K   | D   | Y   | F   | P   | E   | P   | V   | T   | V   | S   | W   | N   | S   | G   | A   | L   | T   | S   |
| Igg2      | L   | G   | C   | L   | V   | K   | D   | Y   | F   | P   | E   | P   | V   | T   | V   | S   | W   | N   | S   | G   | A   | L   | T   | S   |
| Igg3      | L   | G   | C   | L   | V   | K   | D   | Y   | F   | P   | E   | P   | V   | T   | V   | S   | W   | N   | S   | G   | A   | L   | T   | S   |
| Igg4      | L   | G   | C   | L   | V   | K   | D   | Y   | F   | P   | E   | P   | V   | T   | V   | S   | W   | N   | S   | G   | A   | L   | T   | S   |

| Region    | CHI |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| EU number | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 |
| Igg1      | G   | V   | H   | T   | F   | P   | A   | V   | L   | Q   | S   | S   | G   | L   | Y   | S   | L   | S   | S   | V   | V   | T   | V   | P   |
| Igg2      | G   | V   | H   | T   | F   | P   | A   | V   | L   | Q   | S   | S   | G   | L   | Y   | S   | L   | S   | S   | V   | V   | T   | V   | P*  |
| Igg3      | G   | V   | H   | T   | F   | P   | A   | V   | L   | Q   | S*  | S   | G   | L   | Y   | S   | L   | S   | S   | V   | V   | T   | V   | P   |
| Igg4      | G   | V   | H   | T   | F   | P   | A   | V   | L   | Q   | S   | S   | G   | L   | Y   | S   | L   | S   | S   | V   | V   | T   | V   | P   |

| Region    | CHI |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| EU number | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 |
| Igg1      | S   | S   | S   | L   | G   | T   | Q   | T   | Y   | I   | C   | N   | V   | N   | H   | K   | P   | S   | N   | T   | K   | V   | D   | K   |
| Igg2      | S   | S   | N*  | F*  | G   | T   | Q   | T   | Y   | T   | C   | N   | V   | D   | H   | K   | P   | S   | N   | T   | K   | V   | D   | K   |
| Igg3      | S   | S   | S*  | L*  | G   | T   | Q   | T   | Y   | T   | C   | N   | V   | N   | H   | K   | P   | S   | N   | T   | K   | V   | D   | K   |
| Igg4      | S   | S   | S   | L   | G   | T   | K   | T   | Y   | T   | C   | N   | V   | D   | H   | K   | P   | S   | N   | T   | K   | V   | D   | K   |

| Region    | CHI |     |     |     |     |   |     |     |
|-----------|-----|-----|-----|-----|-----|---|-----|-----|
| EU number | 214 | 215 | 216 | 217 | 218 |   | 219 | 220 |
| Igg1      | K*  | V   | E   | P   | K   |   | S   | C   |
| Igg2      | T   | V   | E   | R   | K   |   | C   | C   |
| Igg3      | R   | V   | E   | L   | K   | T | F   | L   |
| Igg4      | R   | V   | E   | S   | K   | Y | G   |     |

FIG. 2C

SUBSTITUTE SHEET (RULE 26)

| CL        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Region    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| EU number | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 |  |  |  |
| Kappa     | R   | T   | V   | A   | A   | P   | S   | V   | F   | I   | F   | P   | P   | S   | D   | E   | Q   | L   | K   | S   | G   | T   | A   | S   |  |  |  |
| Lambda    | Q   | P   | K   | A   | A*  | P   | S*  | V   | T   | L   | F   | P   | P   | S   | S   | E   | E   | L   | Q   | A   | N   | K   | A   | T   |  |  |  |

| CL        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |   |  |  |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|--|--|
| Region    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |   |  |  |
| EU number | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 |   |   |  |  |
| Kappa     | V   | V   | C   | L   | L   | N   | N   | F   | Y   | P   | R   | E   | A   | K   | V   | Q   | W   | K   | V   | D   | N   | A*  | L   |   |   |  |  |
| Lambda    | L   | V   | C   | L   | L   | I   | S   | D   | F   | Y   | P   | G   | A   | V   | T   | V   | A   | W   | K   | A   | D   | S*  | S   | P | V |  |  |

| CL        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Region    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| EU number | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 |  |  |  |  |
| Kappa     | Q   | S   | G   | N   | S   | Q   | E   | S   | V   | T   | E   | Q   | D   | S   | K   | D   | S   | T   | Y   | S   | L   | S   | S   | T   |  |  |  |  |
| Lambda    | K   | A   | G   |     |     | V   | E   | T*  | T   | T   | P   | S   | K   | Q   | S   | N   | N   | K   | Y   | A   | A   | S   | S   | Y   |  |  |  |  |

| CL        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Region    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| EU number | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 |  |  |  |  |
| Kappa     | L   | T   | L   | S   | K   | A   | D   | Y   | E   | K   | H   | K   | V*  | Y   | A   | C   | E   | V   | T   | H   | Q   | G   | L   | S   |  |  |  |  |
| Lambda    | L   | S   | L   | T   | P   | E   | Q   | W   | K   | S   | H   | R*  | S   | Y   | S   | C   | Q   | V   | T   | H   | E   | G   |     |     |  |  |  |  |

| CL        |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Region    |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| EU number | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 |  |  |
| Kappa     | S   | P   | V   | T   | K   | S   | F   | N   | R   | G   | E   | C   |  |  |
| Lambda    | S   | T   | V   | E   | K   | T   | V   | A   | P   | T   | E   | C   |  |  |

FIG. 2D

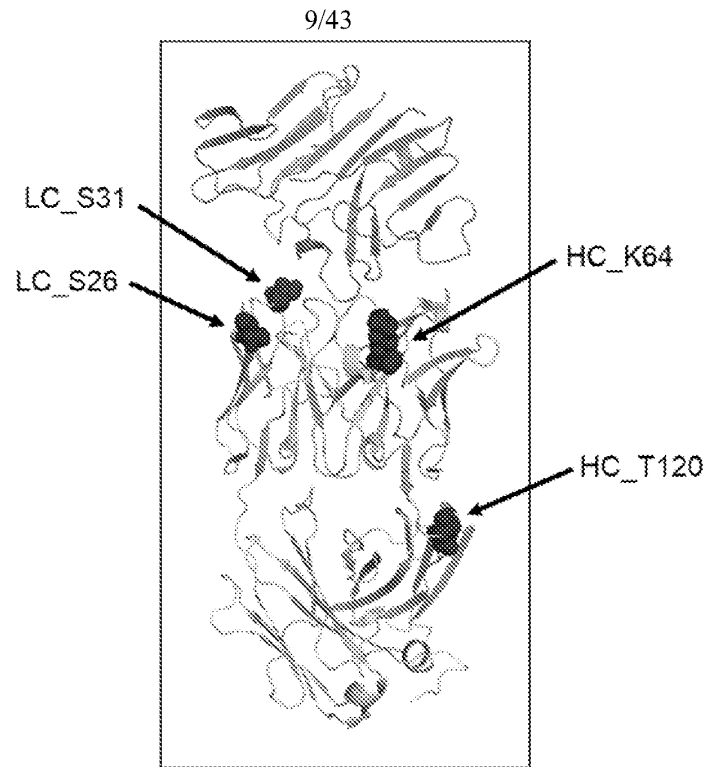


FIG. 3A

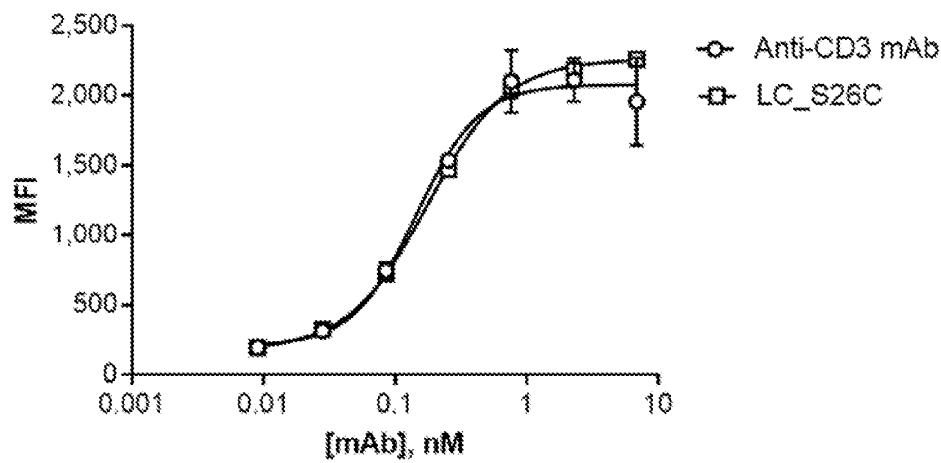


FIG. 3B

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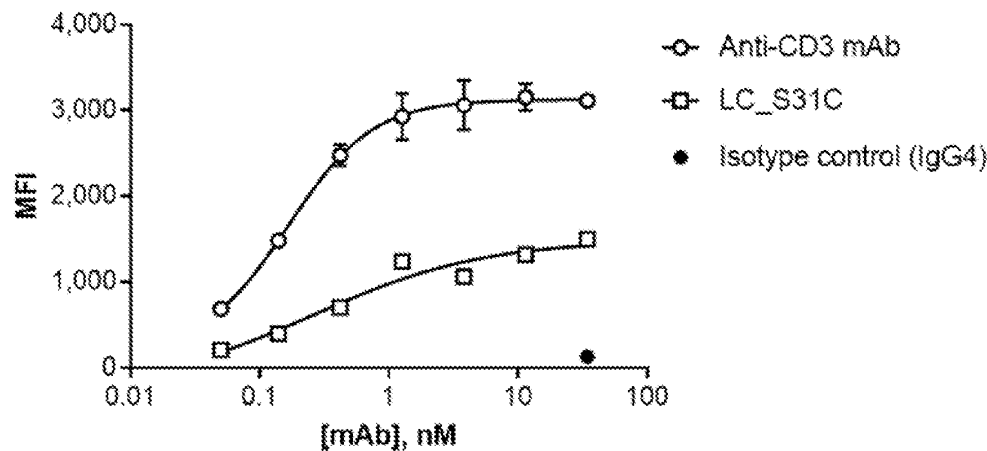


FIG. 3C

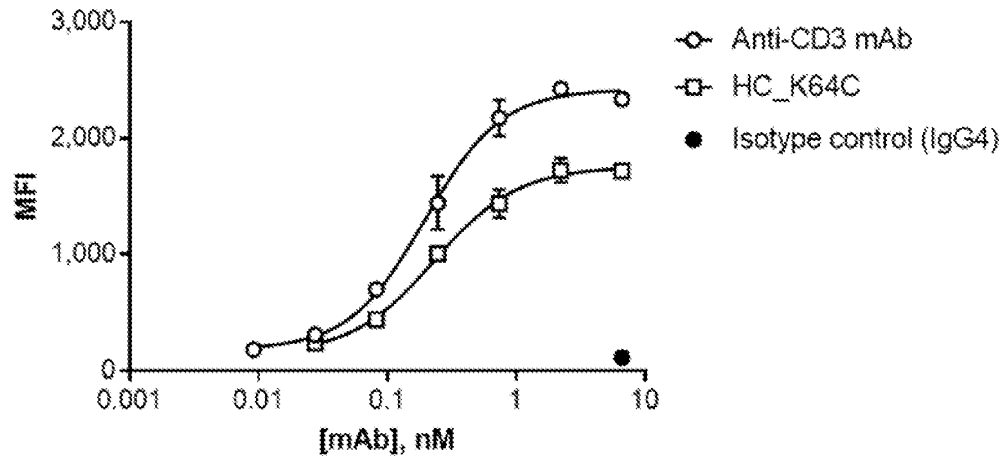


FIG. 3D

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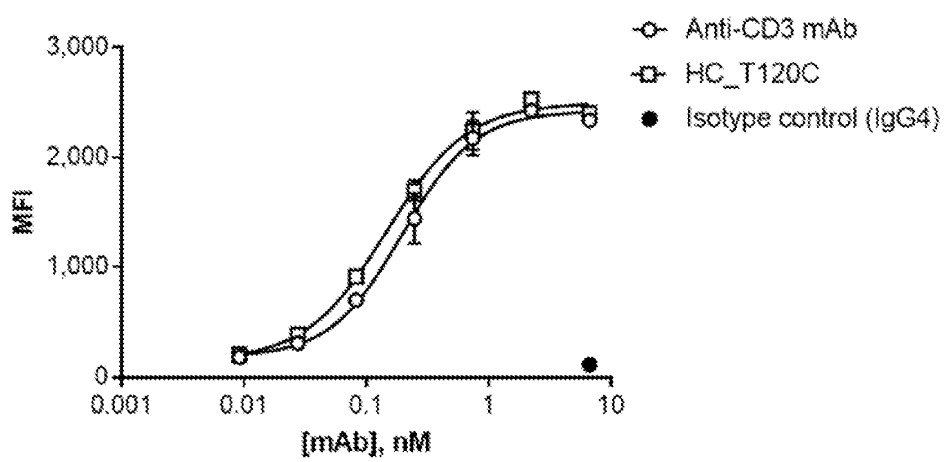


FIG. 3E

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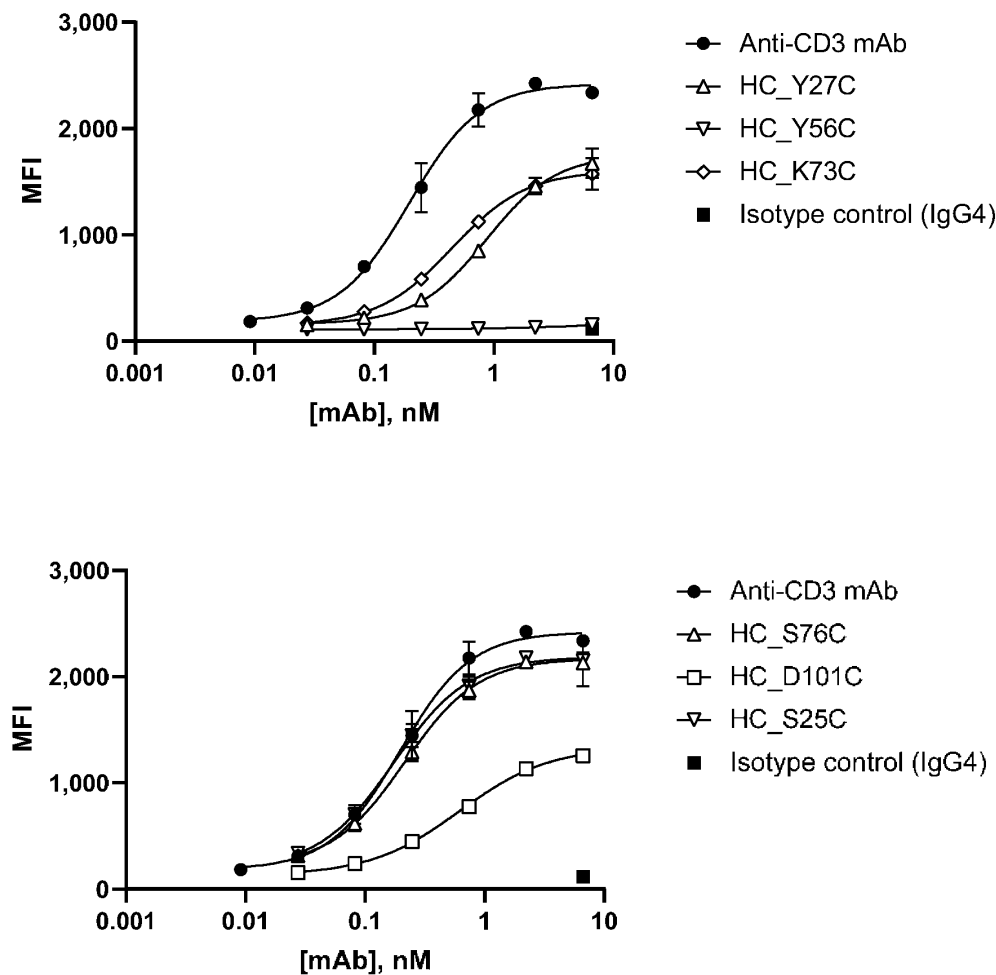


FIG. 3F

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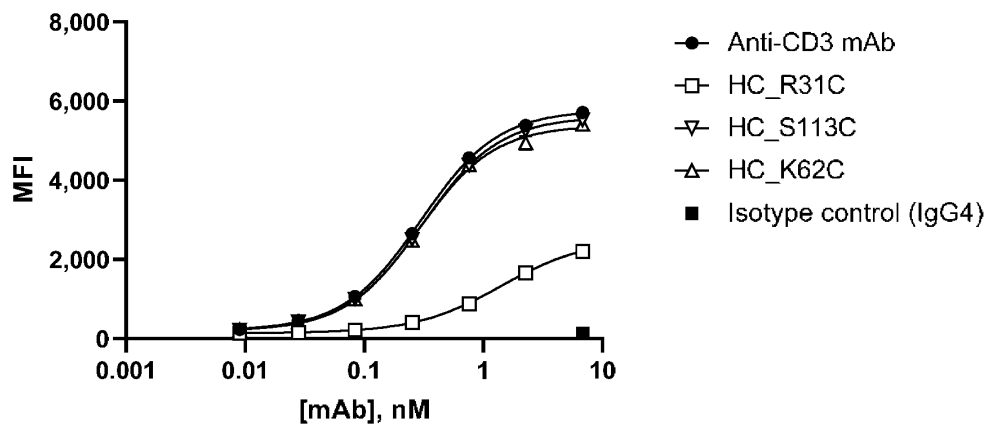
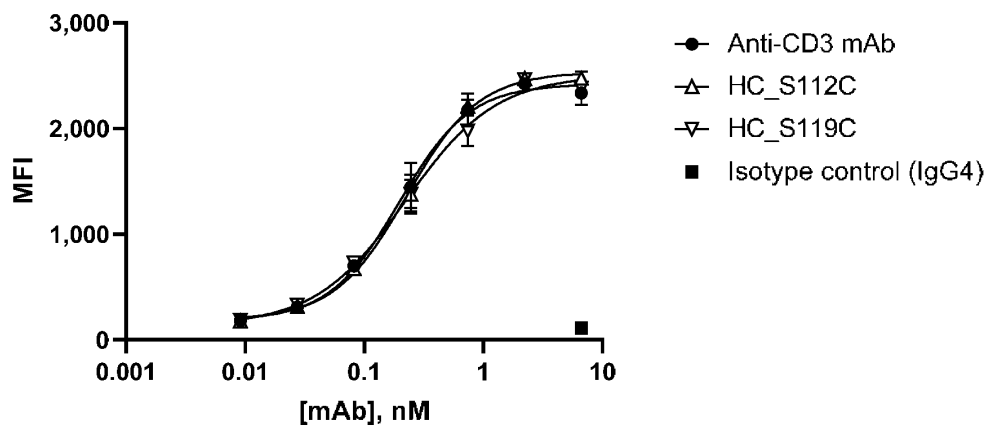


FIG. 3F (Continued)

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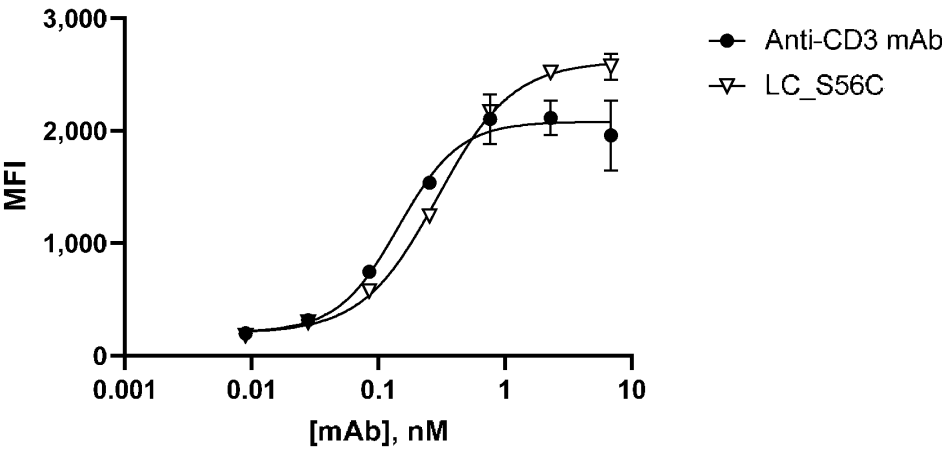
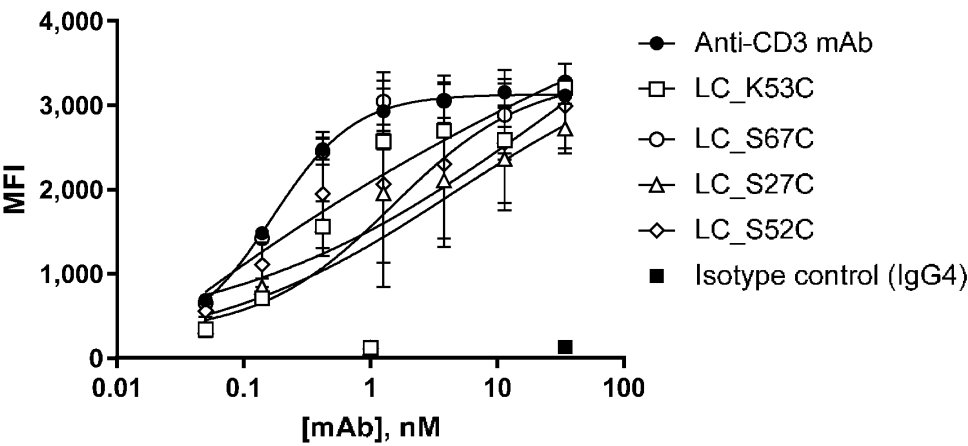


FIG. 3G

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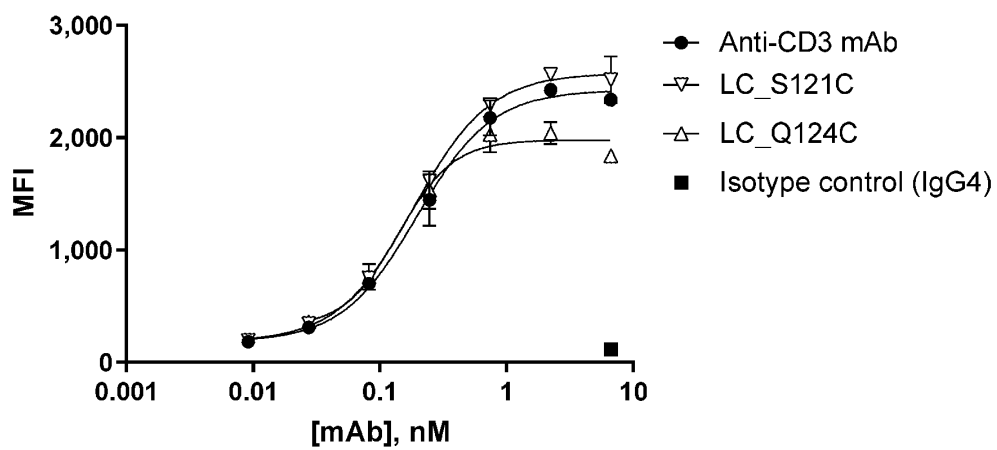


FIG. 3G (Continued)

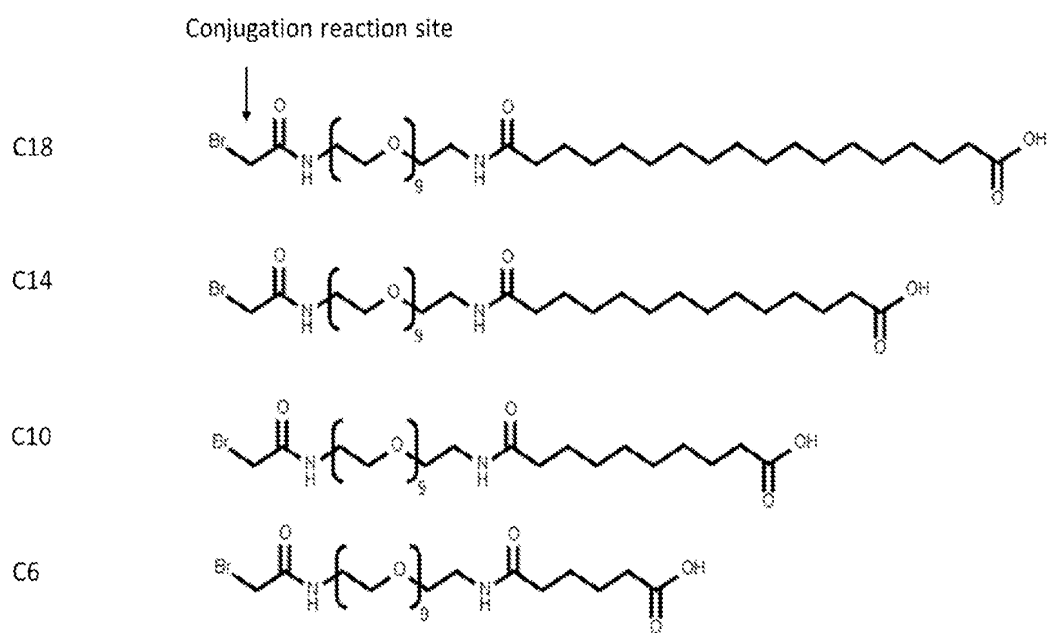


FIG. 4A

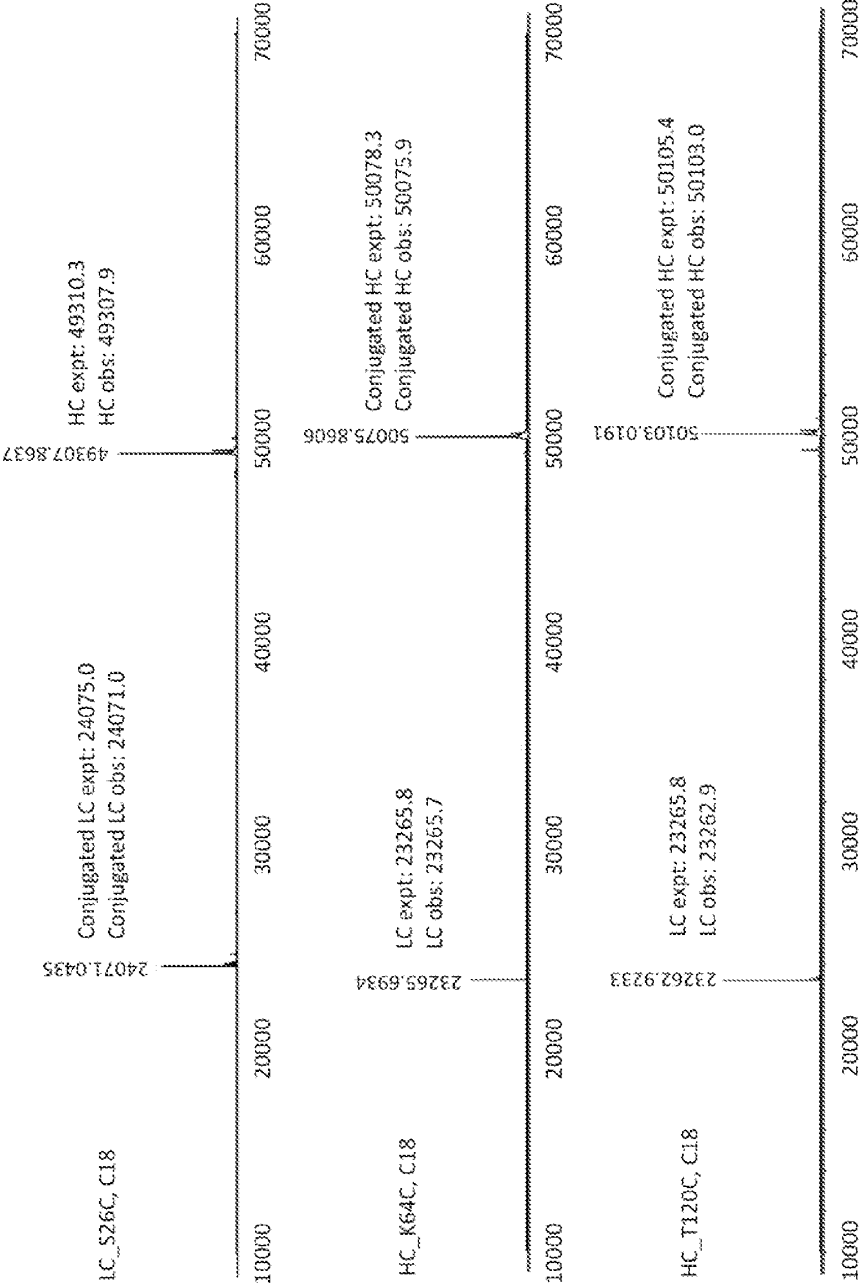


FIG. 4B

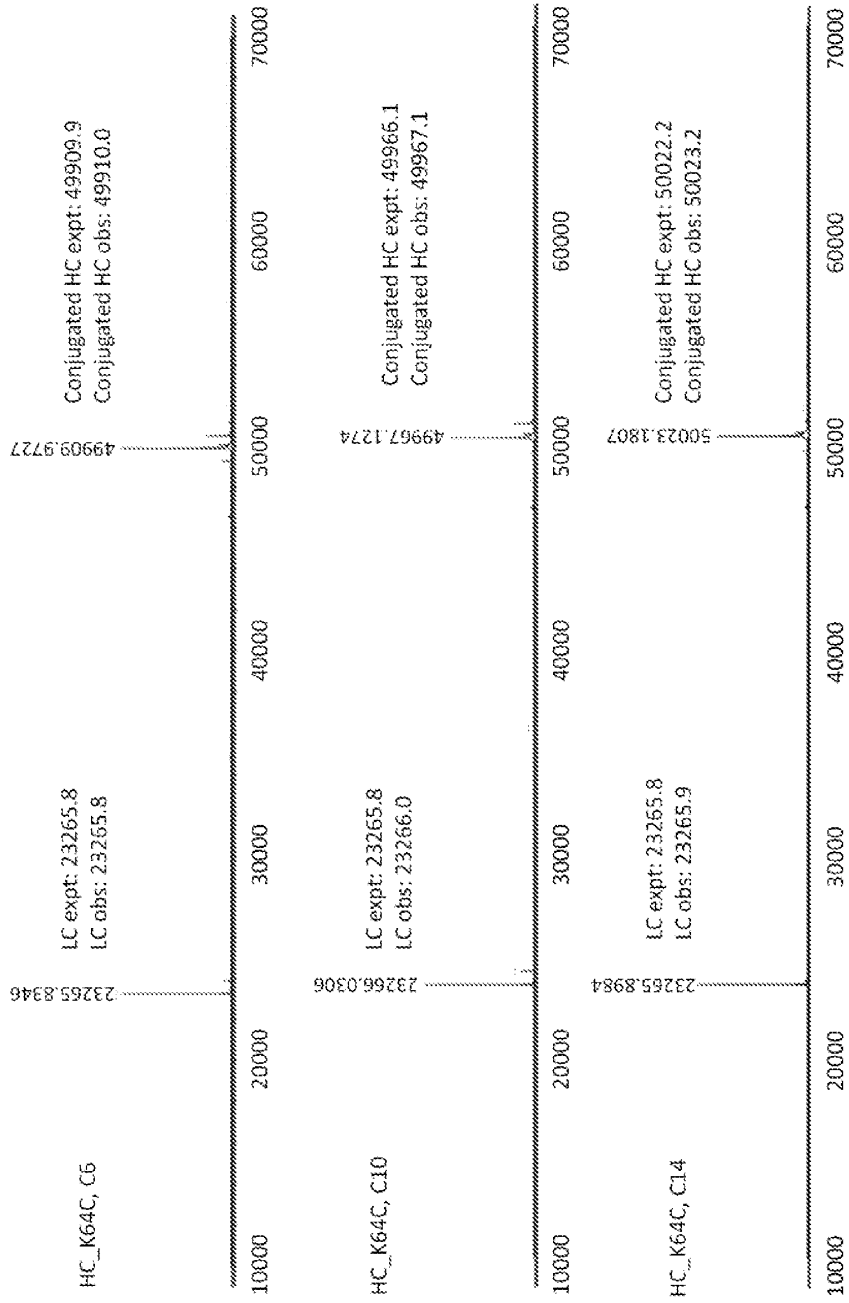


FIG. 4C

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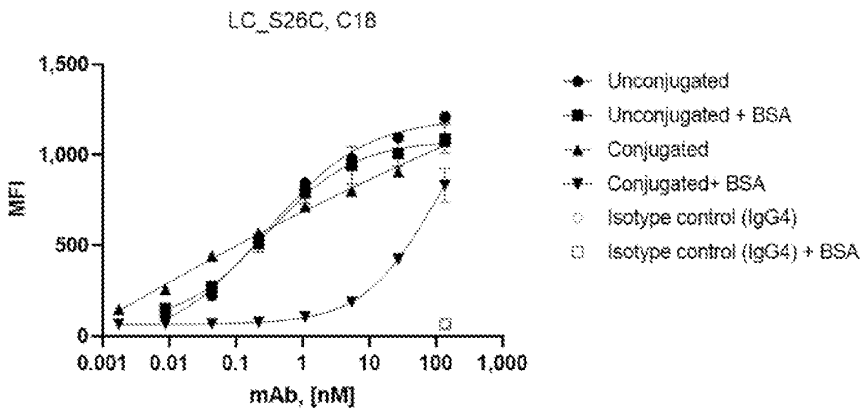


FIG. 5A

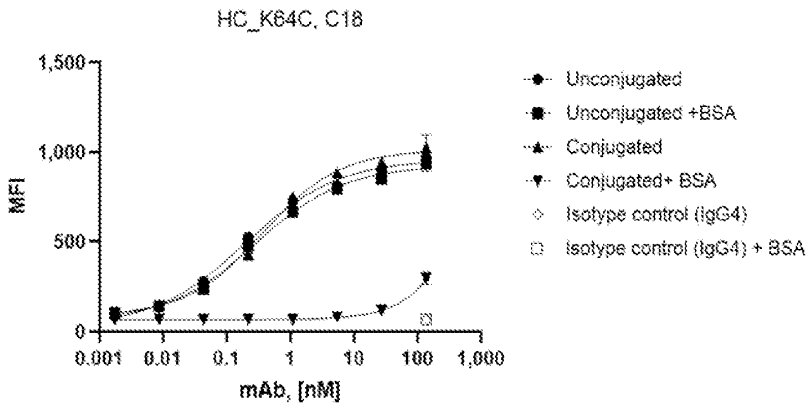


FIG. 5B

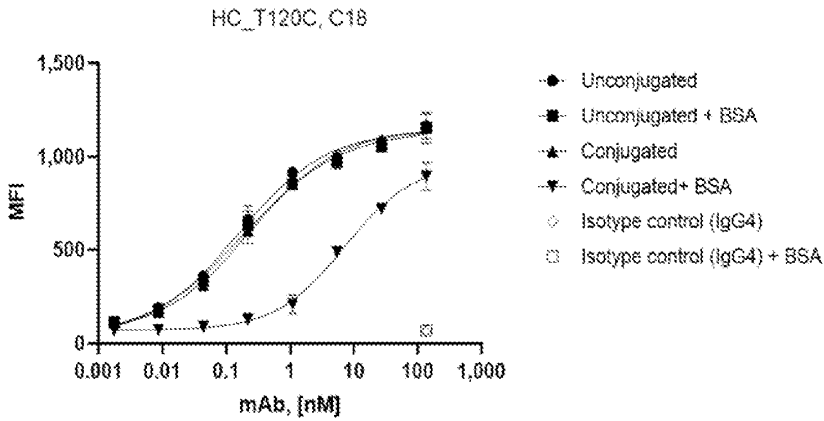


FIG. 5C

Donor #1 (LC\_S26C, C18)

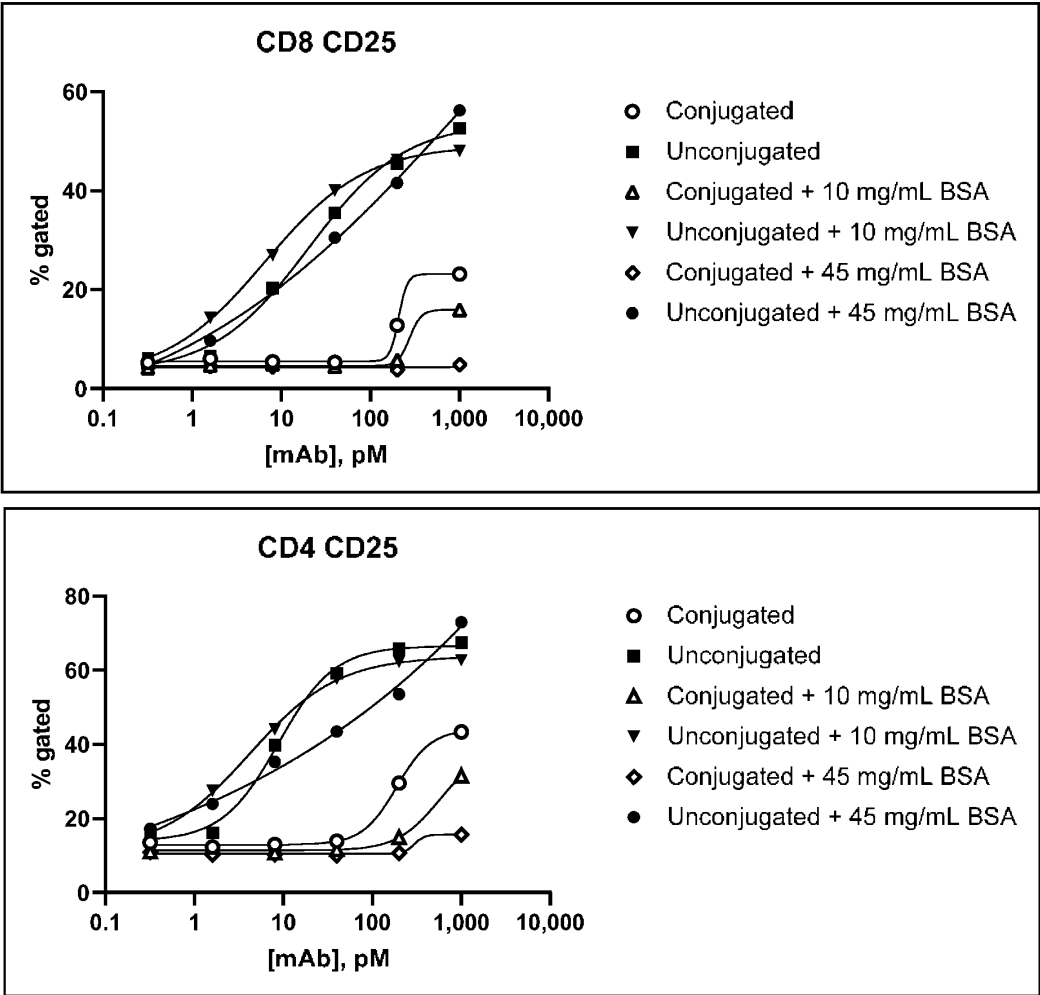


FIG. 6A

Donor #2 (LC\_S26C, C18)

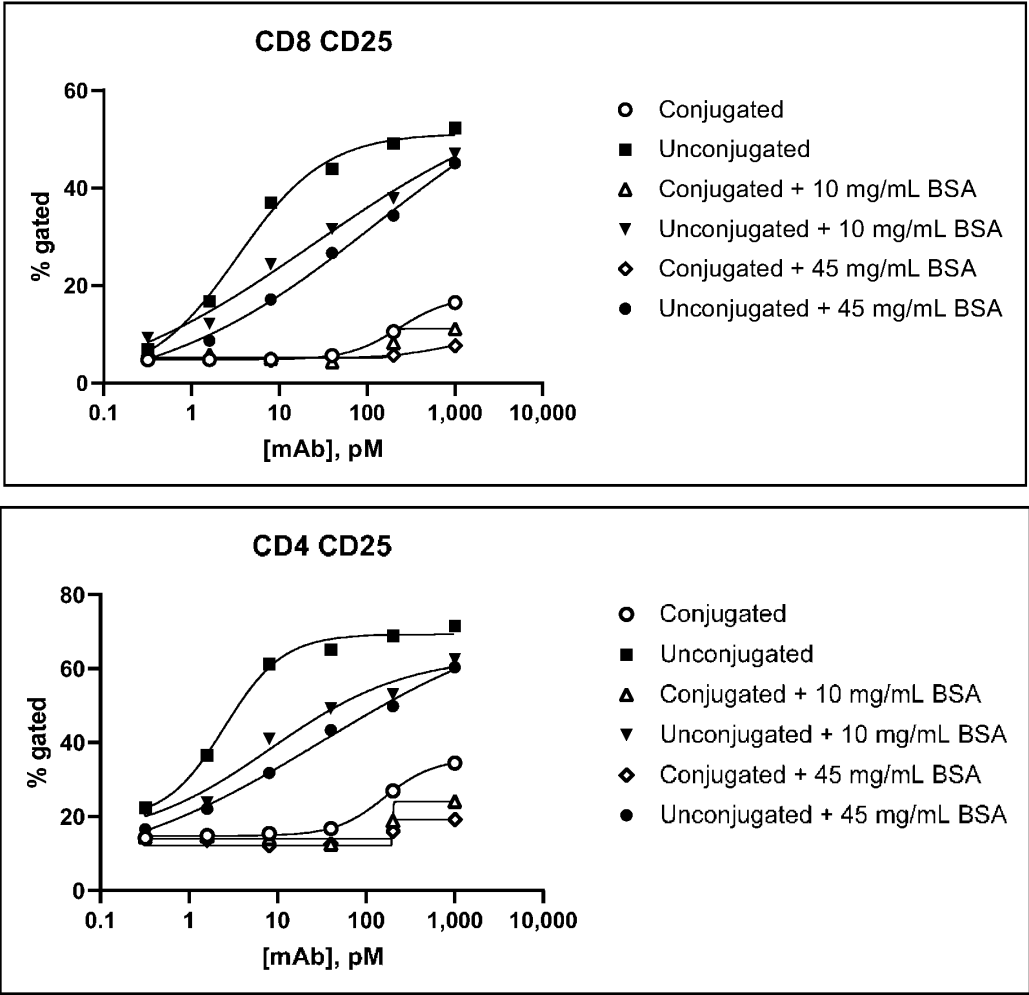


FIG. 6A (Continued)

Donor #1 (HC\_K64C, C18)

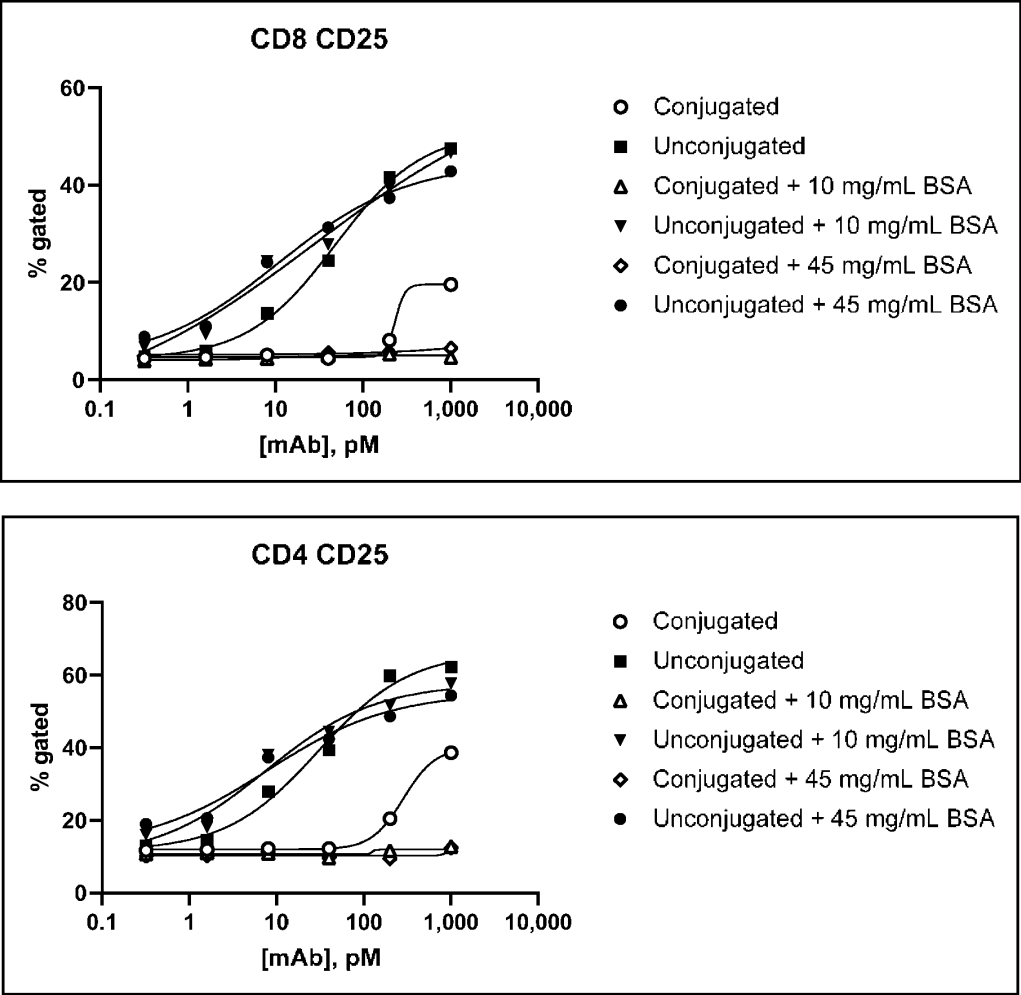


FIG. 6B

Donor #2 (HC\_K64C, C18)

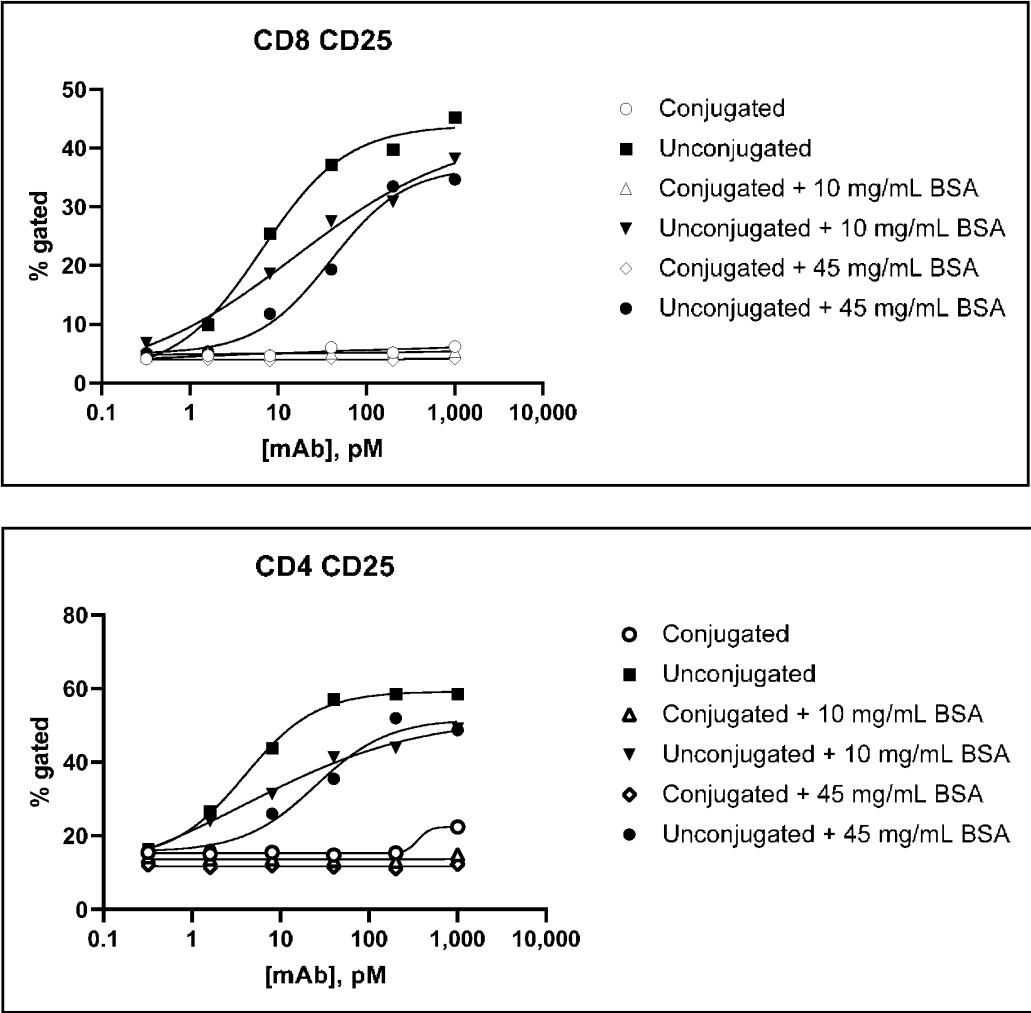


FIG. 6B (Continued)

Donor #1 (HC\_T120C, C18)

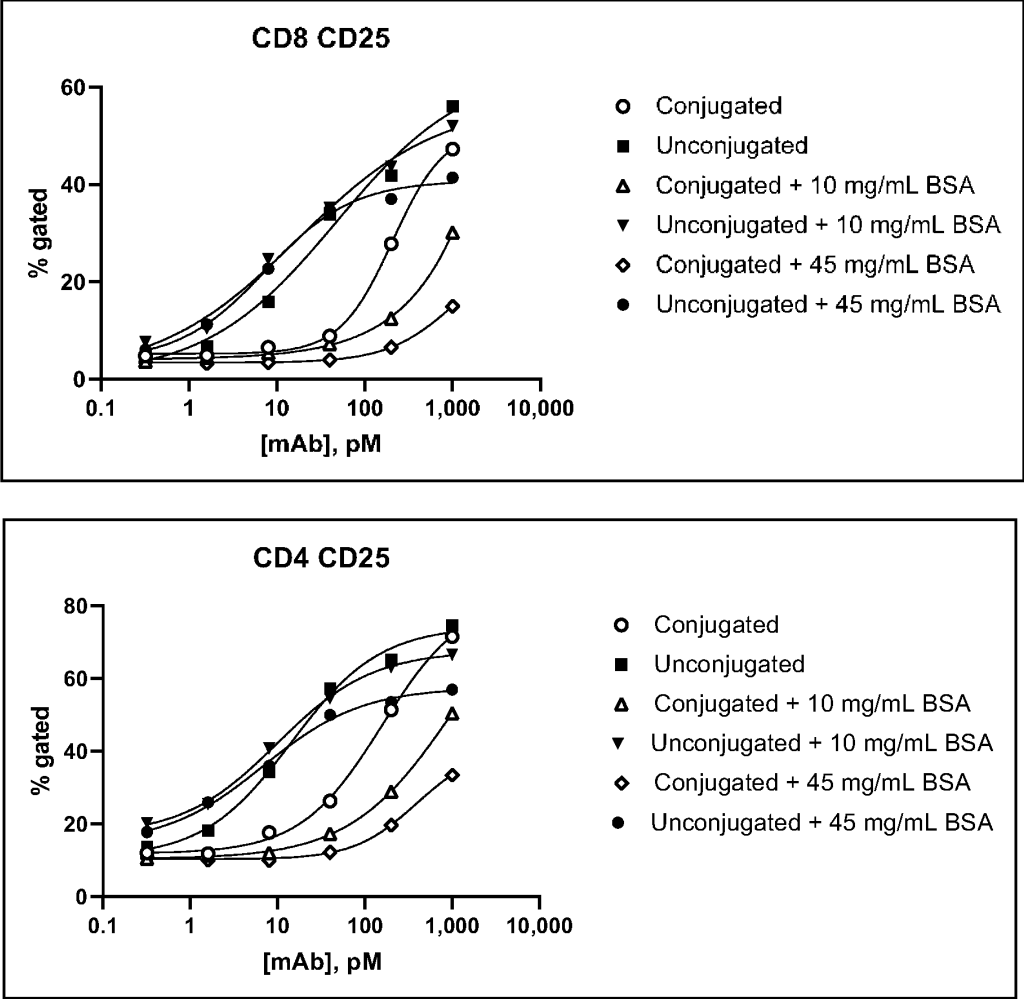


FIG. 6C

Donor #2 (HC\_T120C, C18)

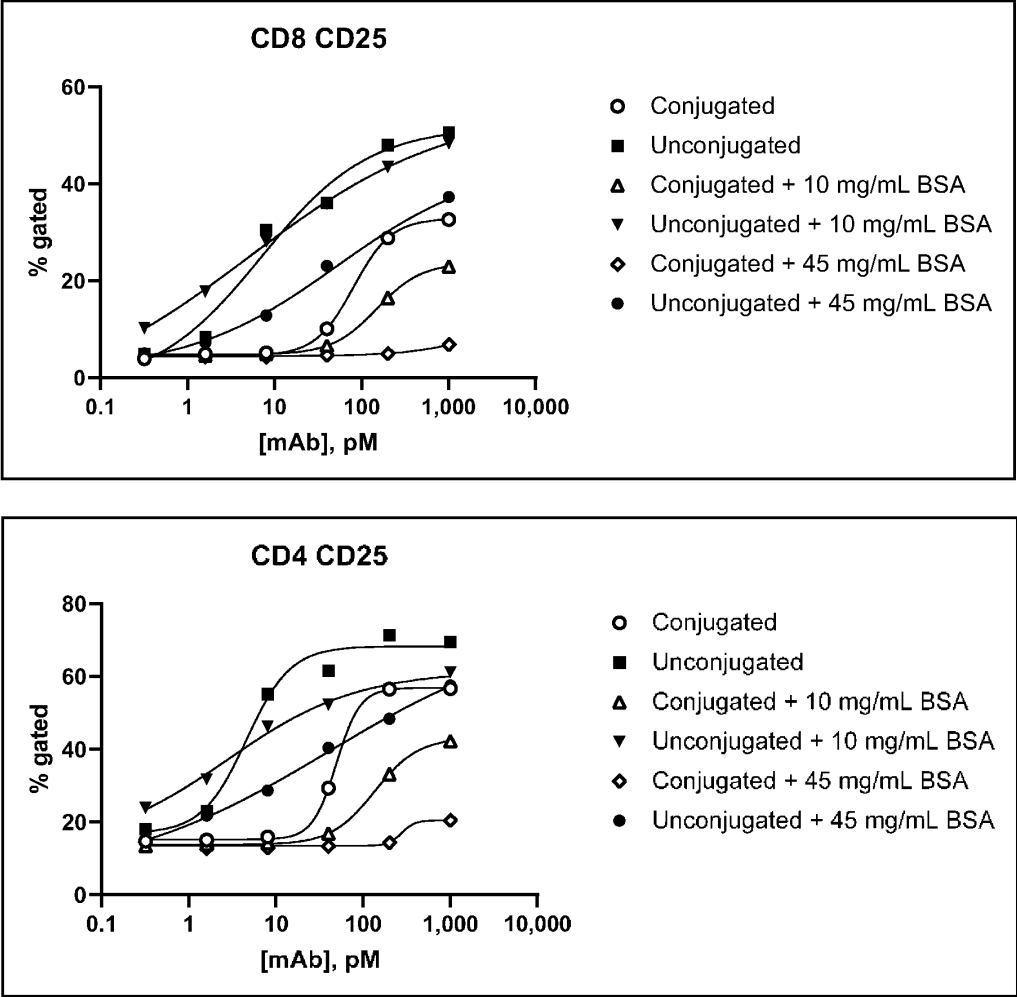


FIG. 6C (Continued)

Donor #1 (HC\_K64C, C6)

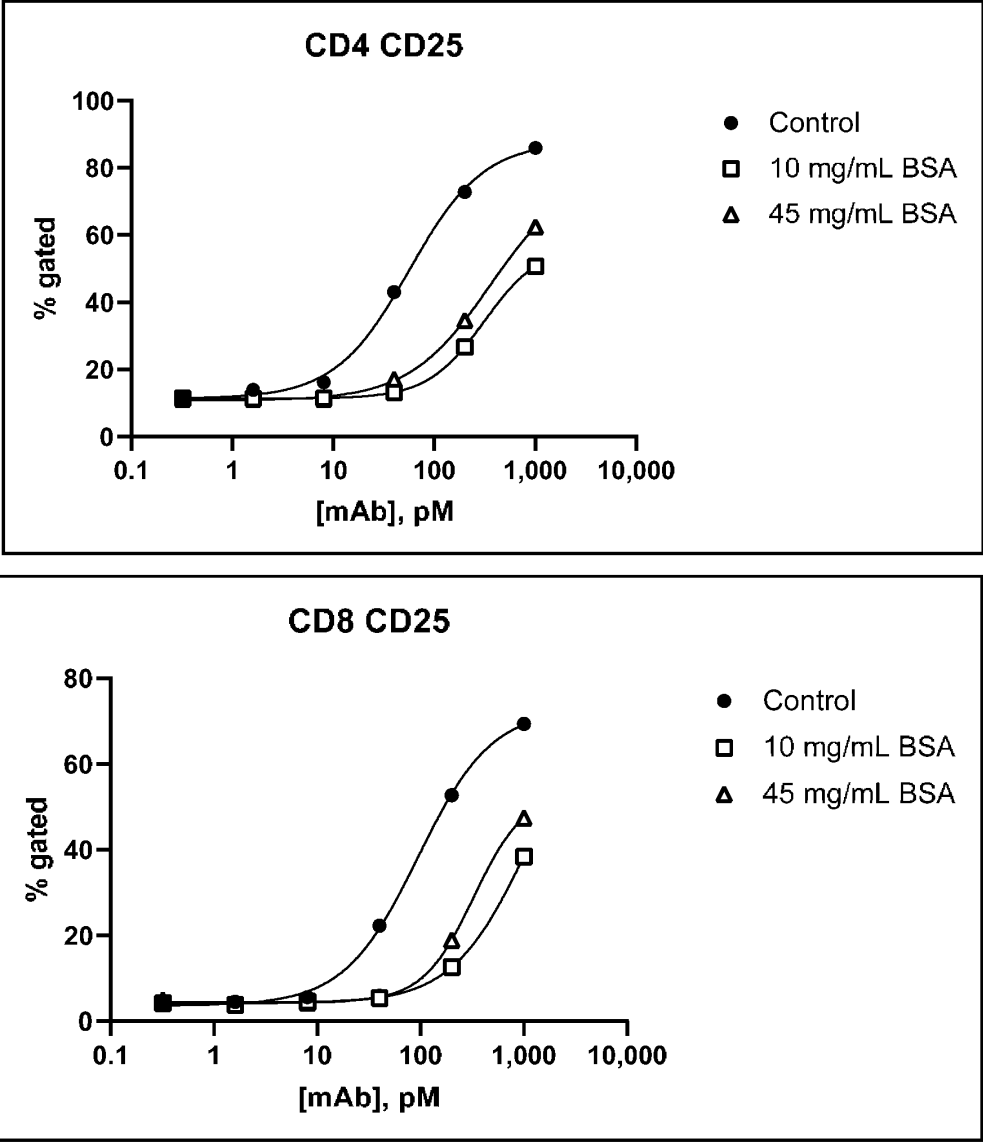


FIG. 7A

Donor #2 (HC\_K64C, C6)

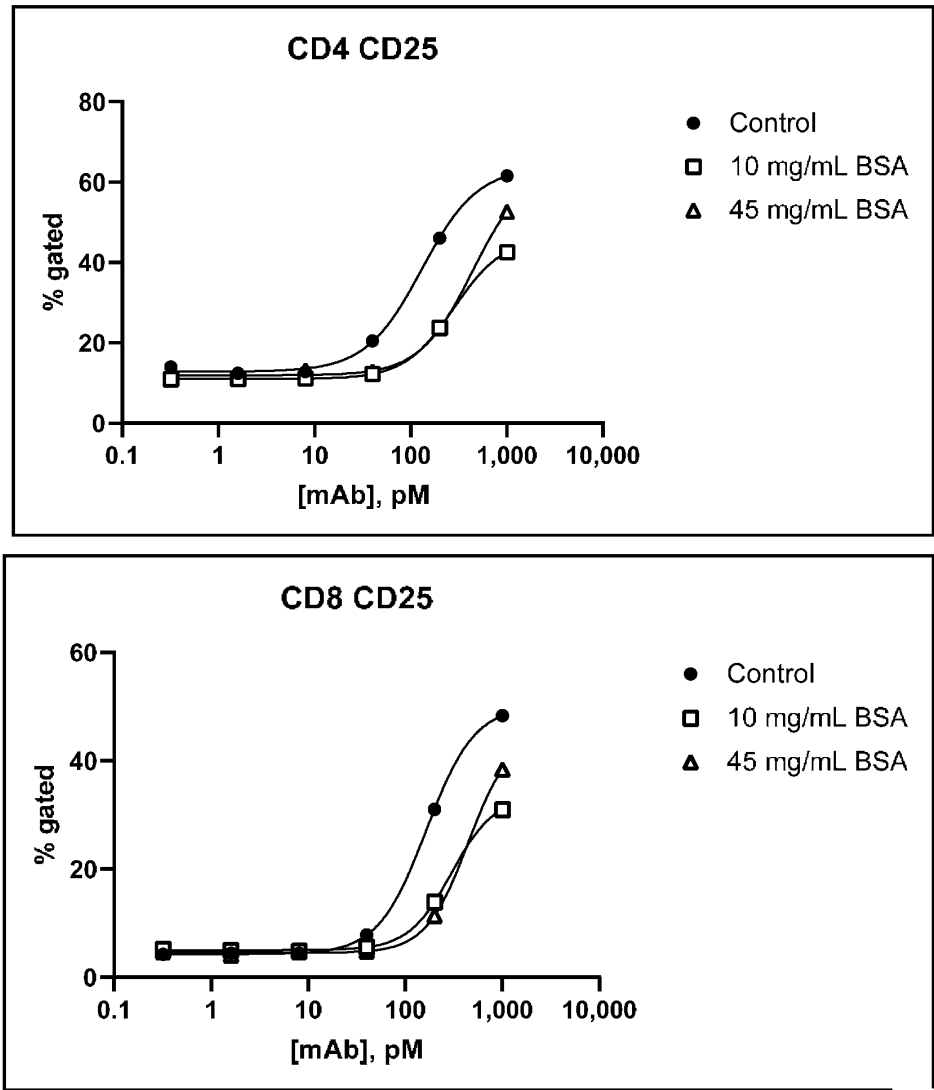


FIG. 7A (Continued)

Donor #1 (HC\_K64C, C10)

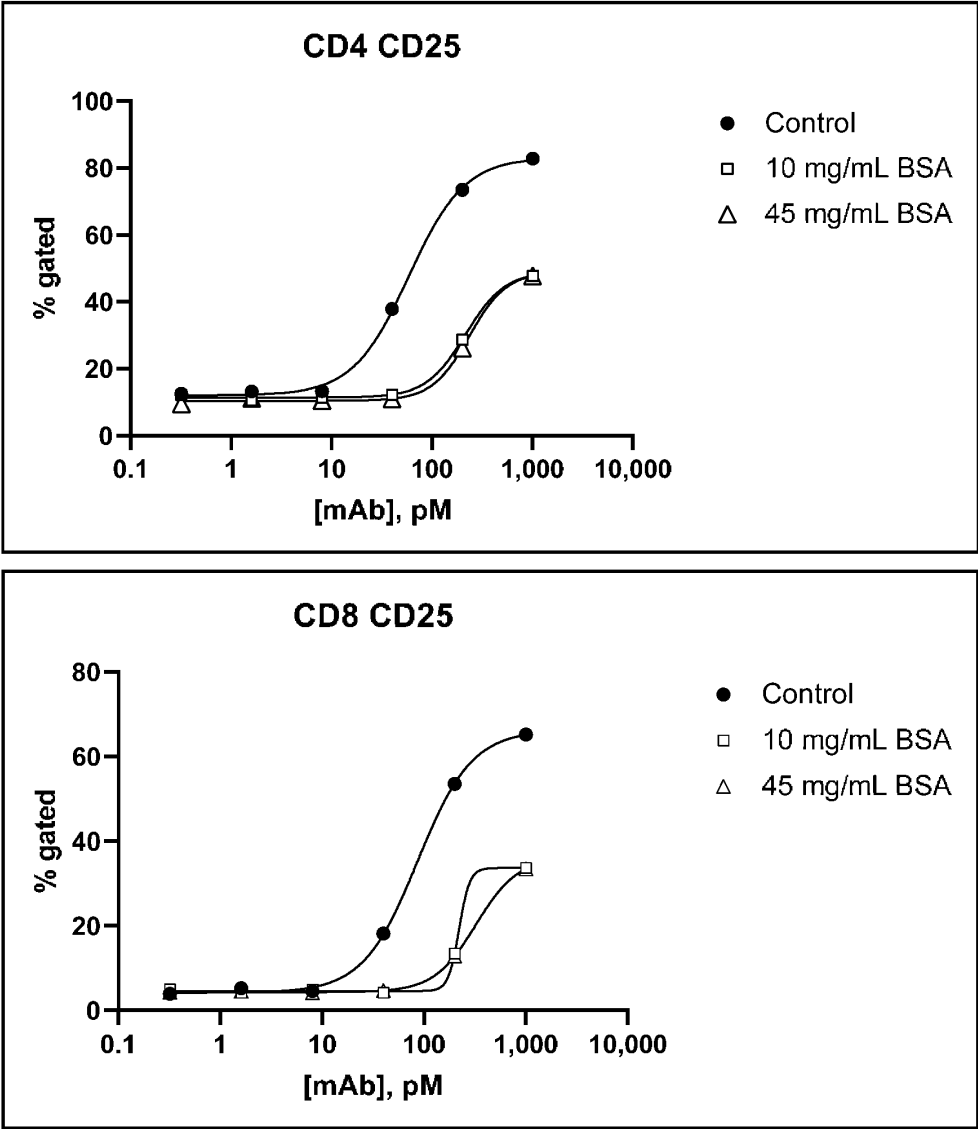


FIG. 7B

Donor #2 (HC\_K64C, C10)

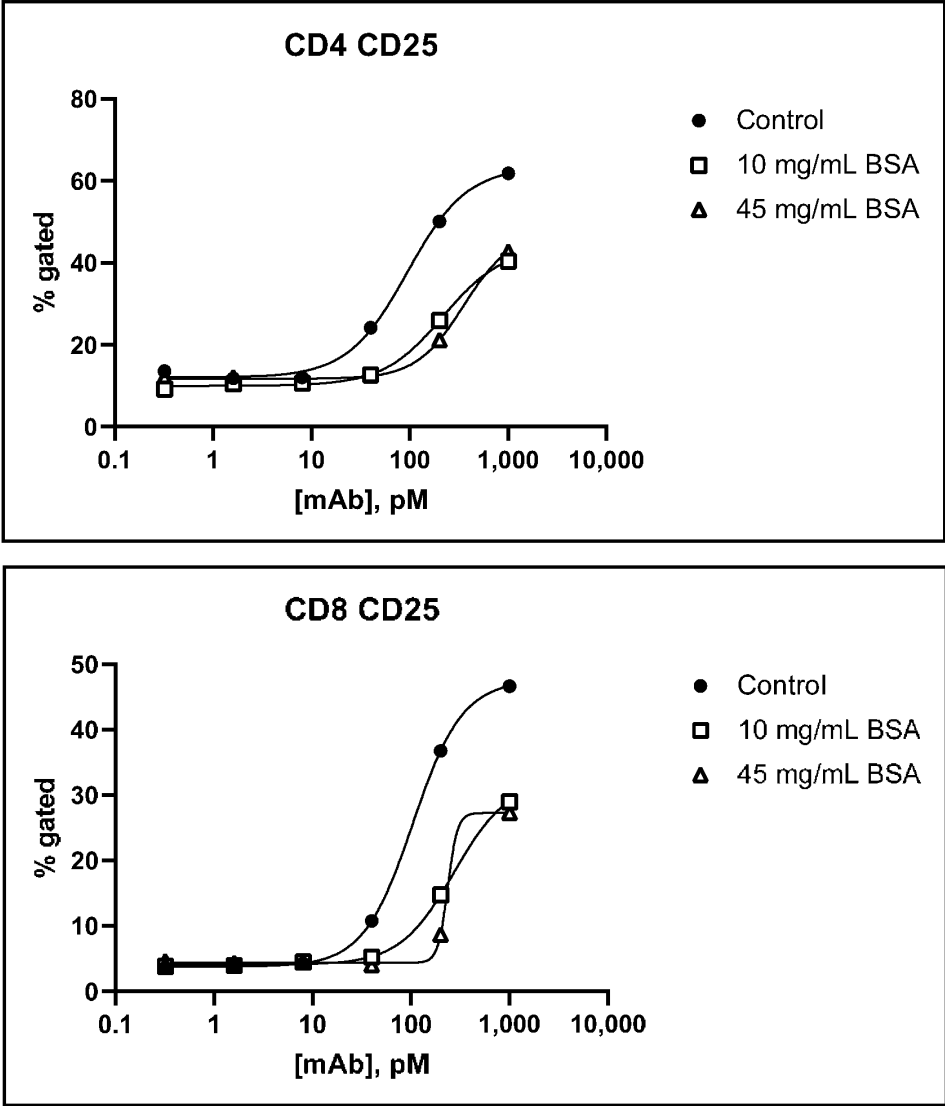


FIG. 7B (Continued)

Donor #1 (HC\_K64C, C14)

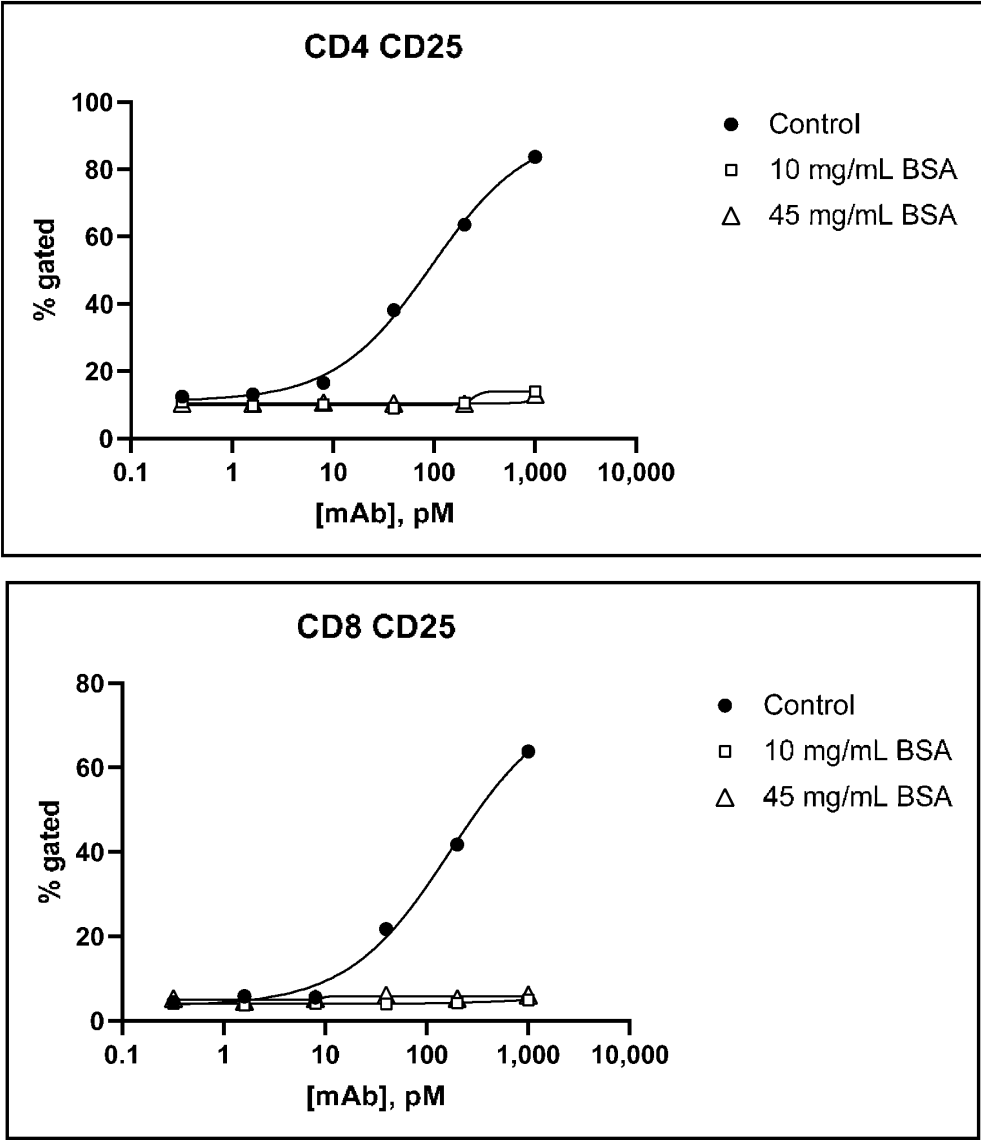


FIG. 7C

Donor #2 (HC\_K64C, C14)

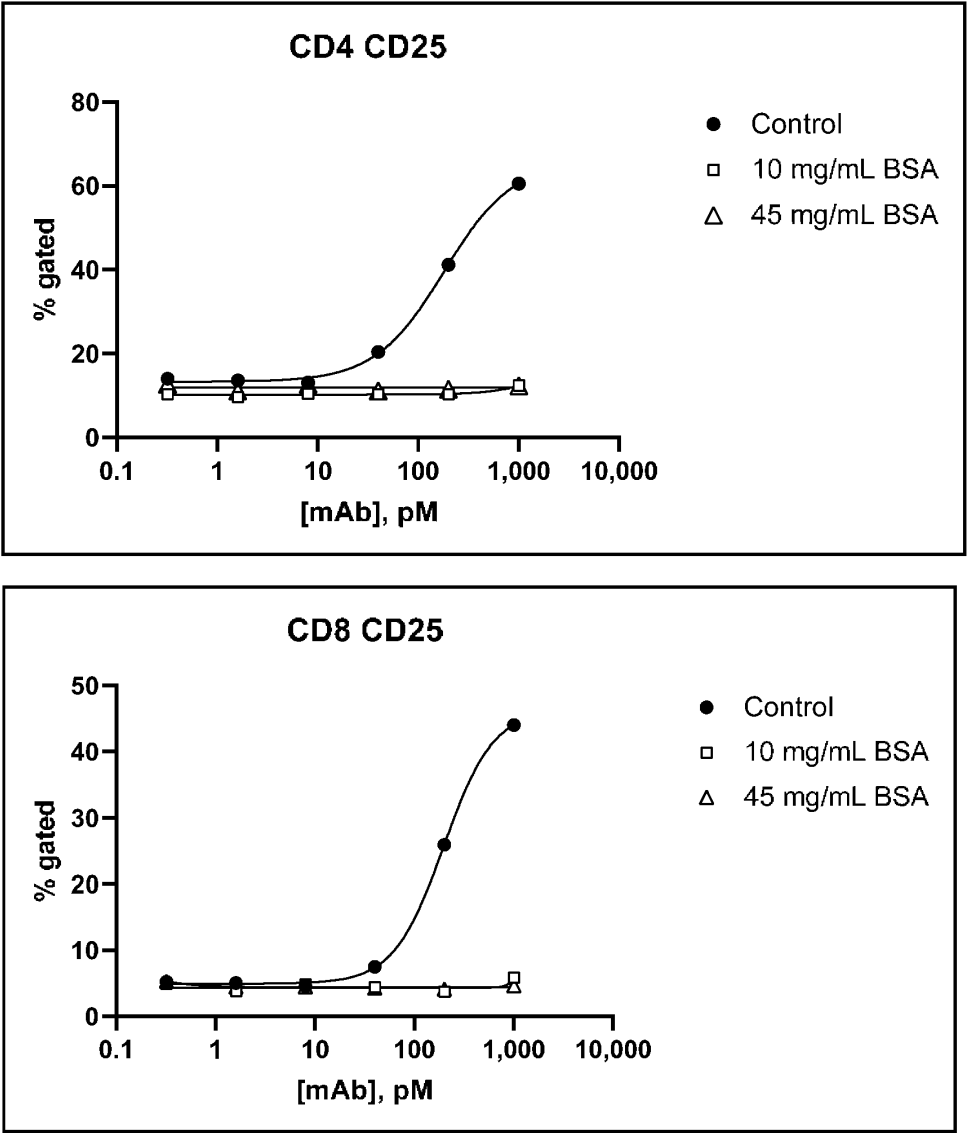


FIG. 7C (Continued)

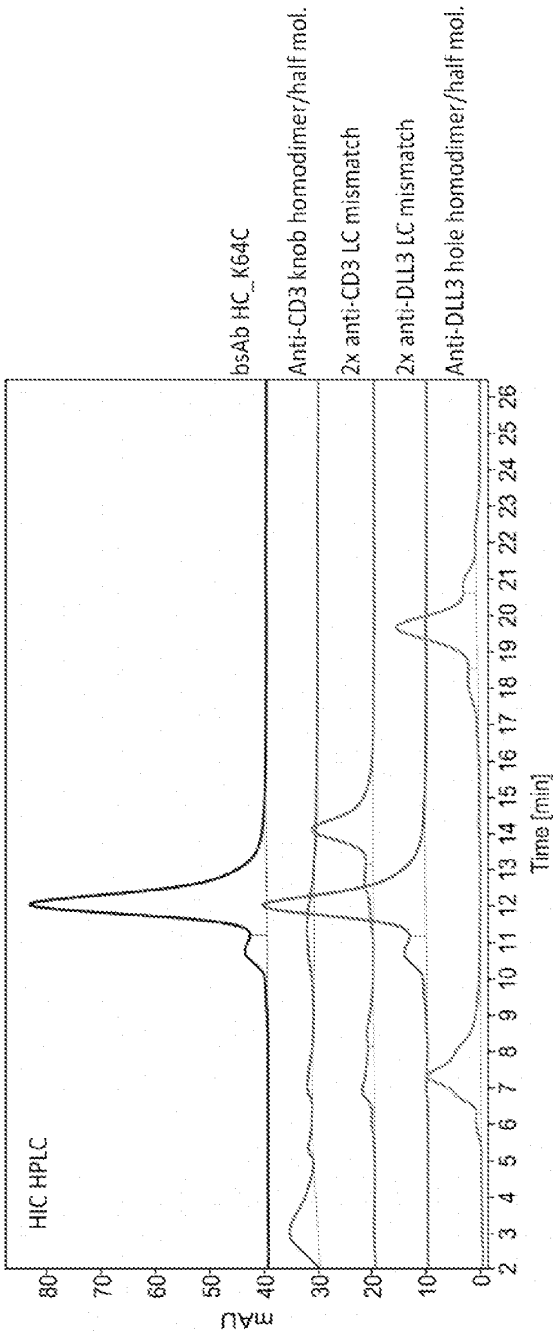


FIG. 8A

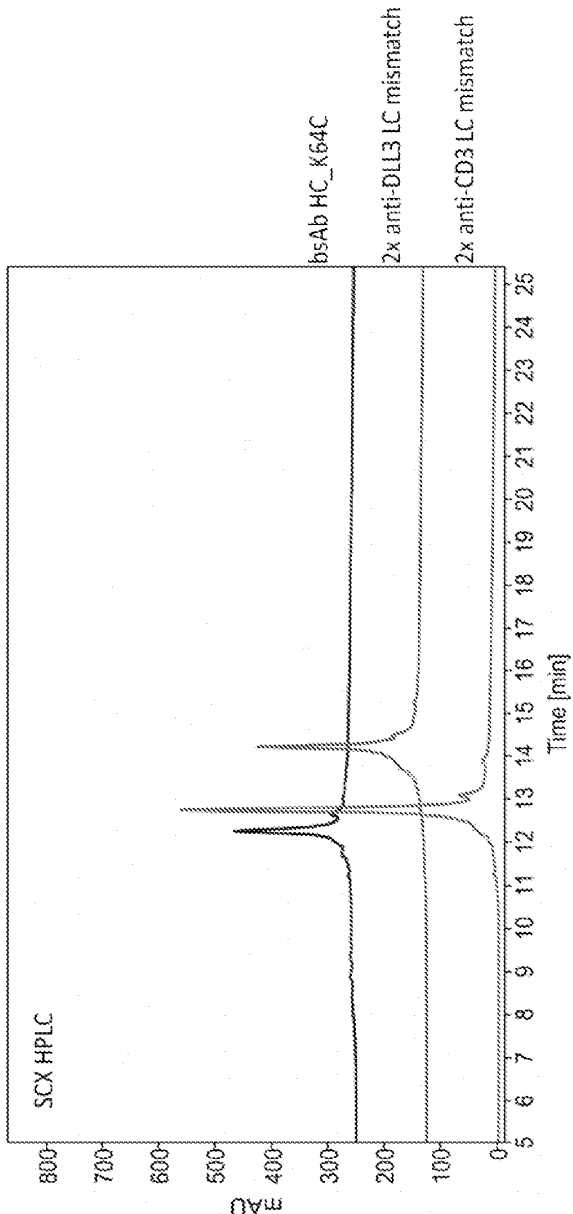


FIG. 8B

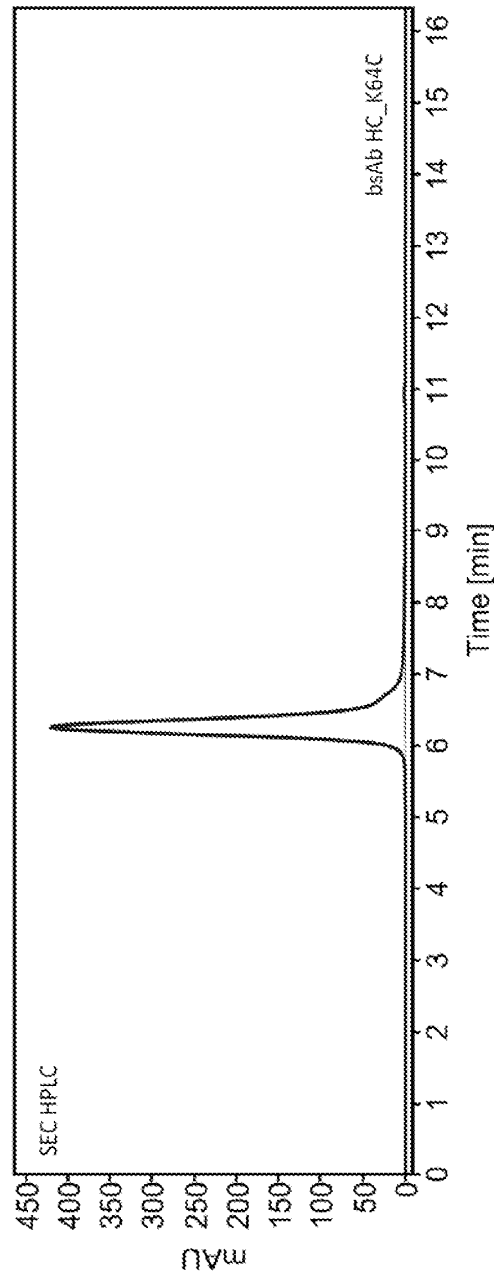


FIG. 8C

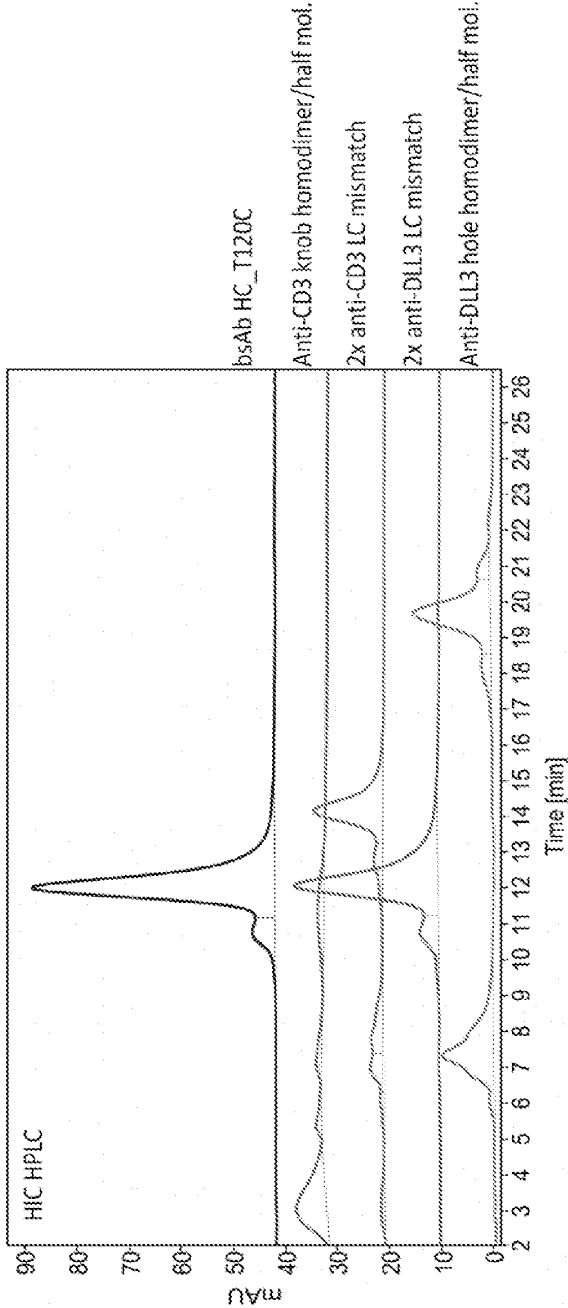


FIG. 9A

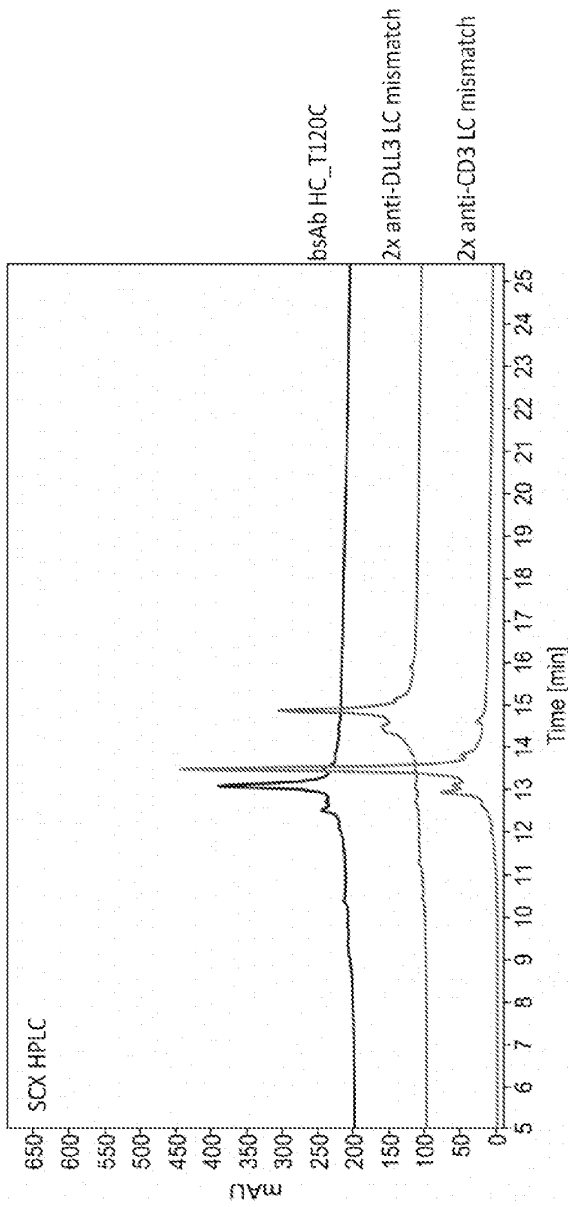


FIG. 9B

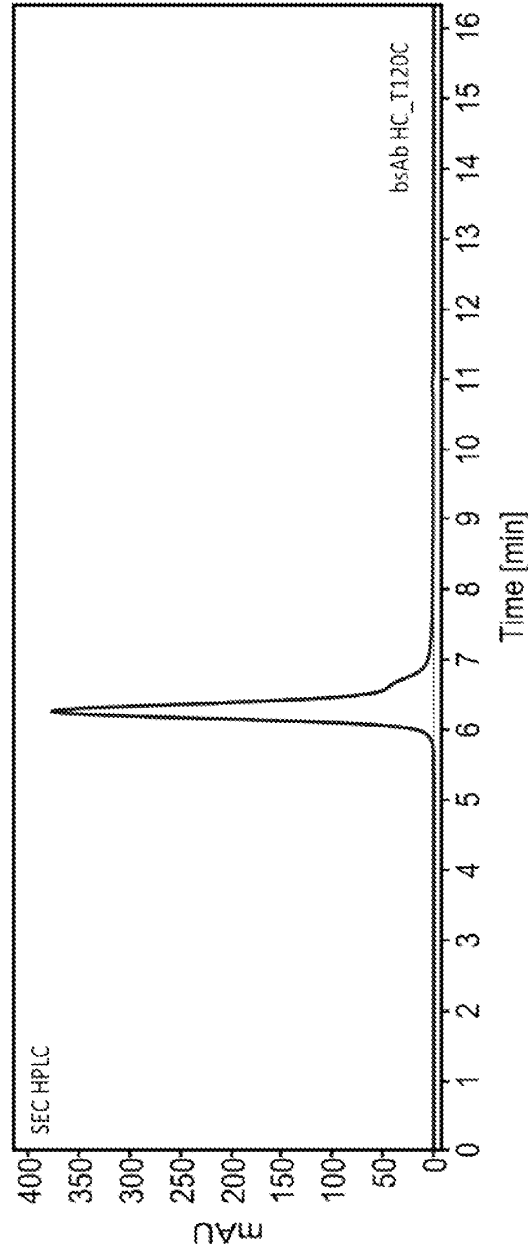


FIG. 9C

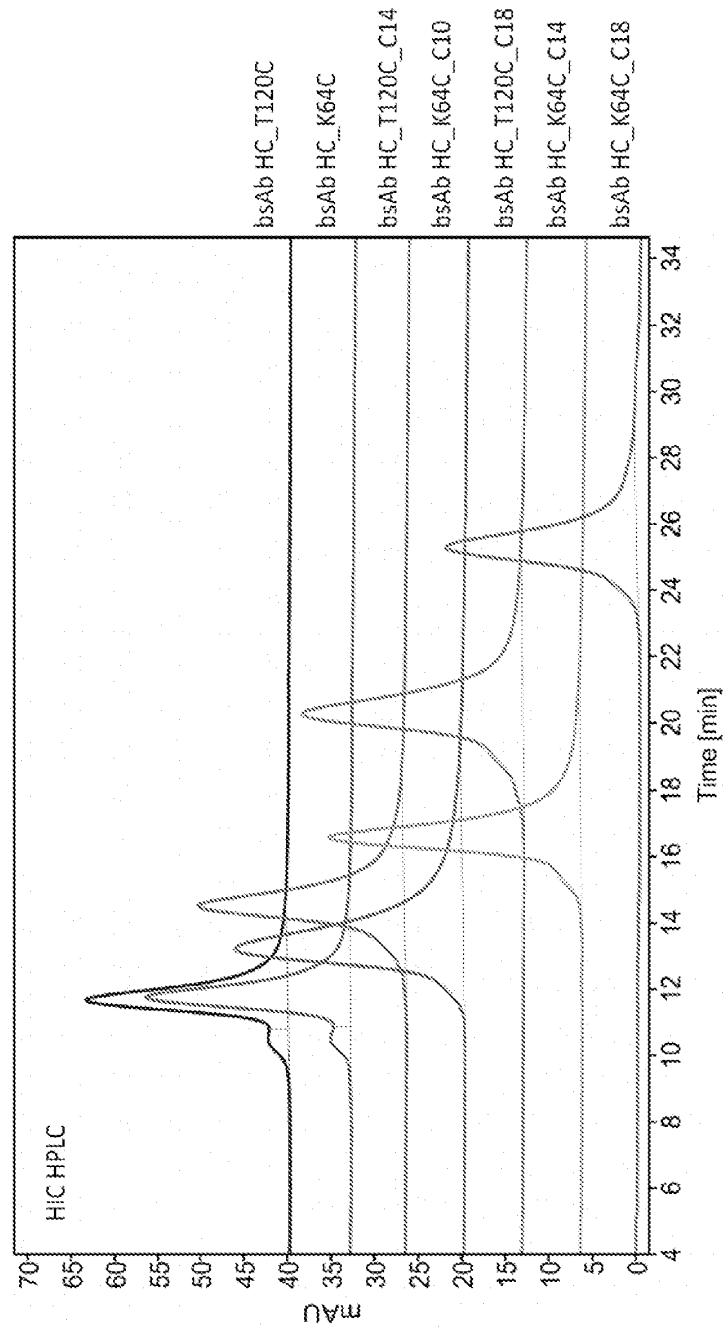


FIG. 10A

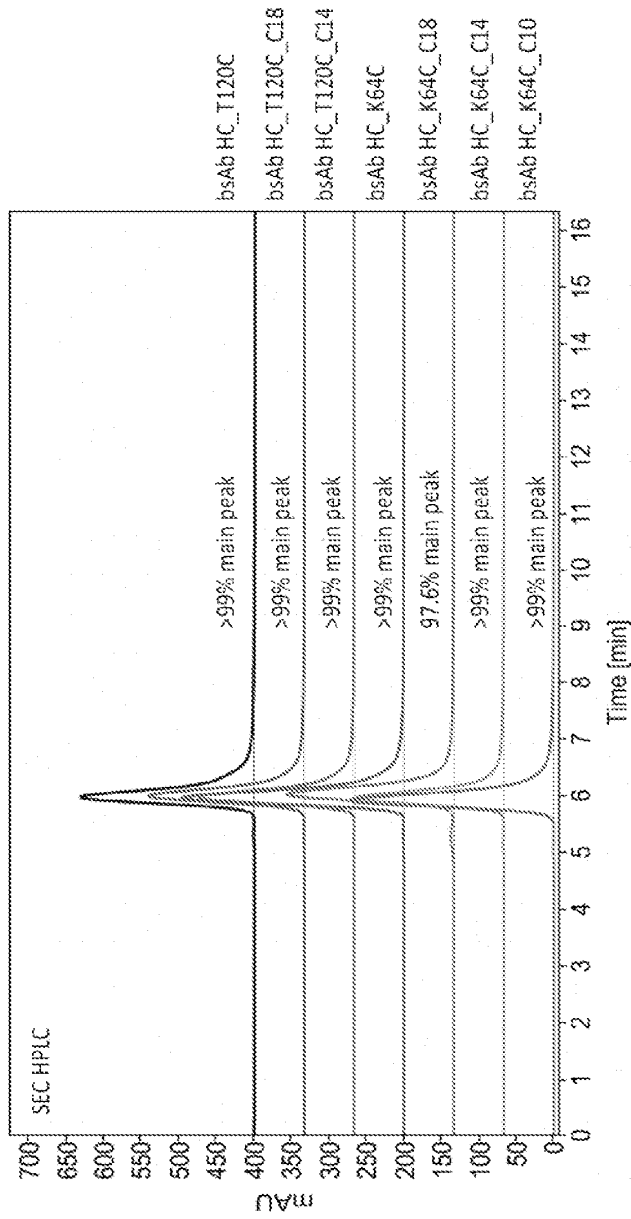


FIG. 10B

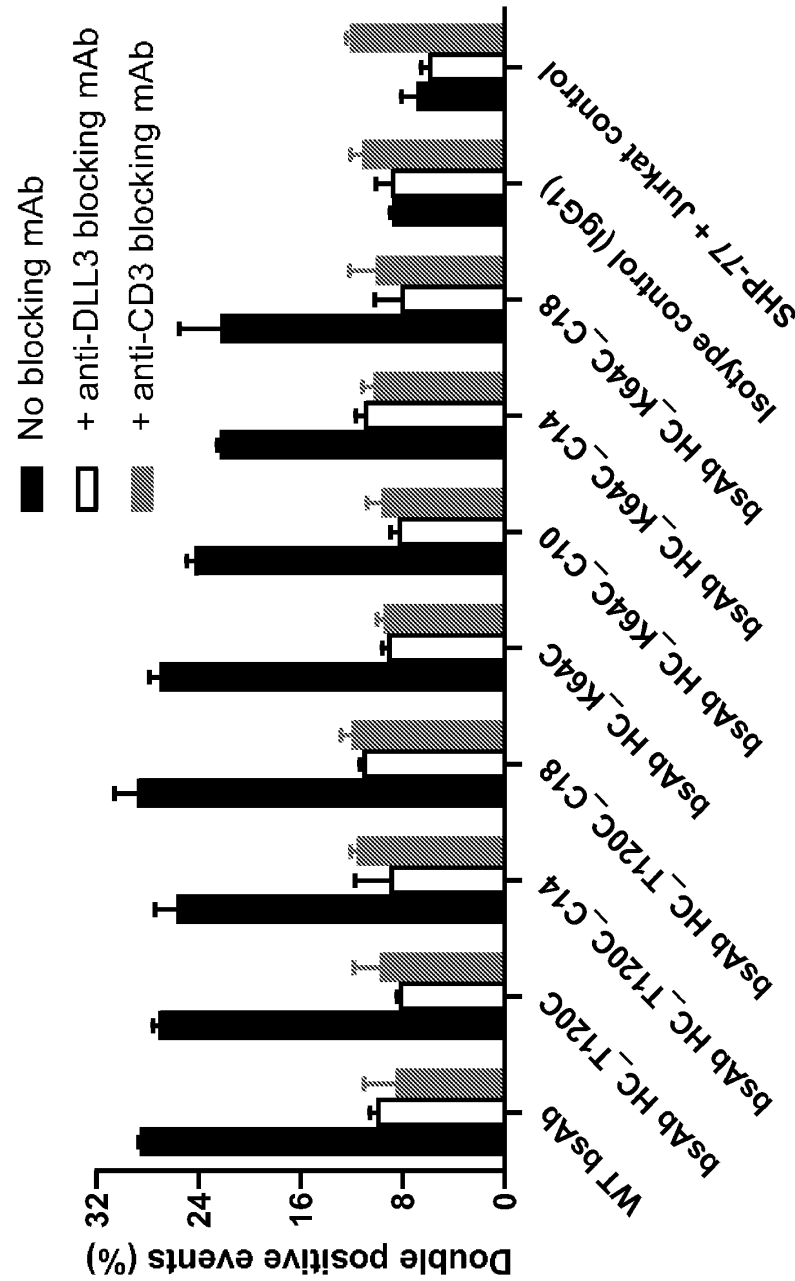


FIG. 11

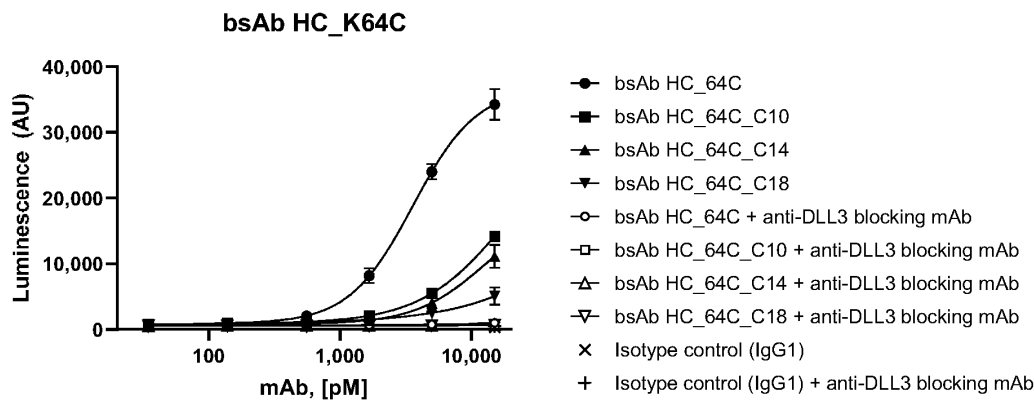


FIG. 12A

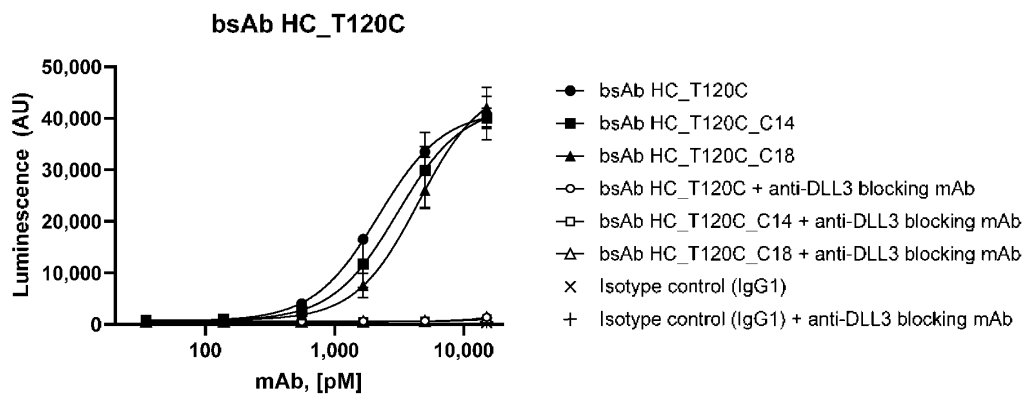


FIG. 12B

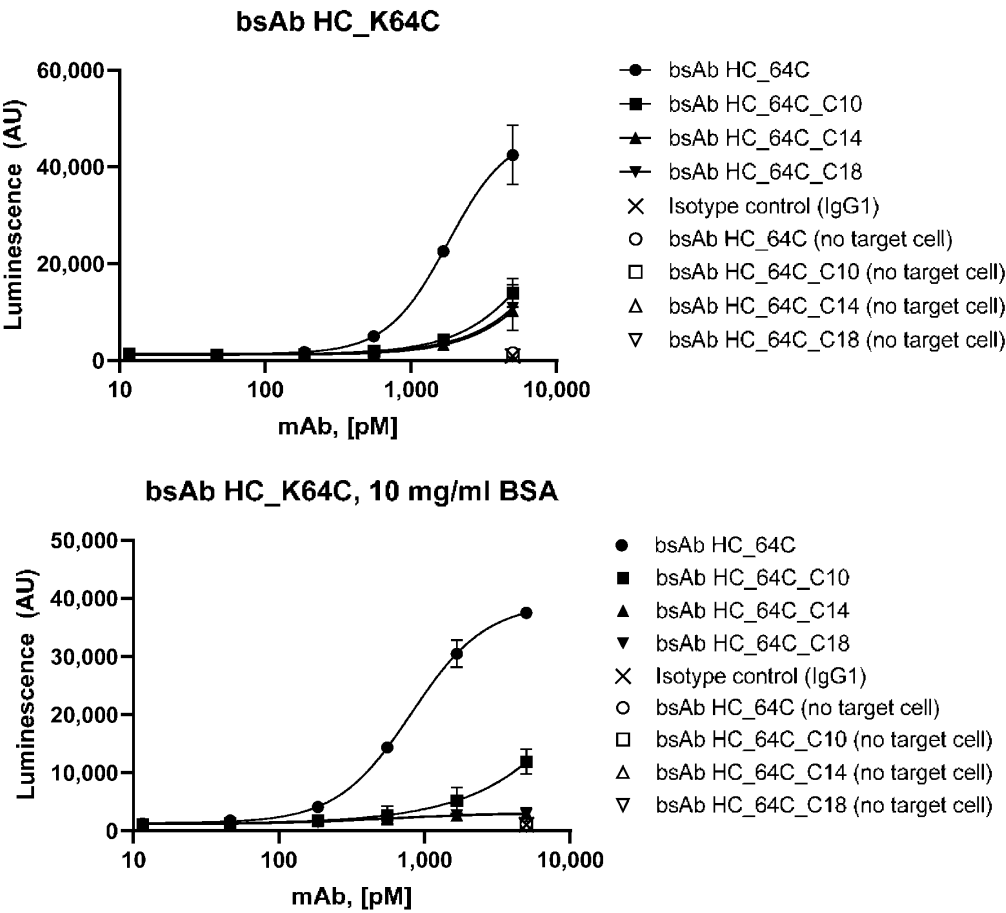


FIG. 13A

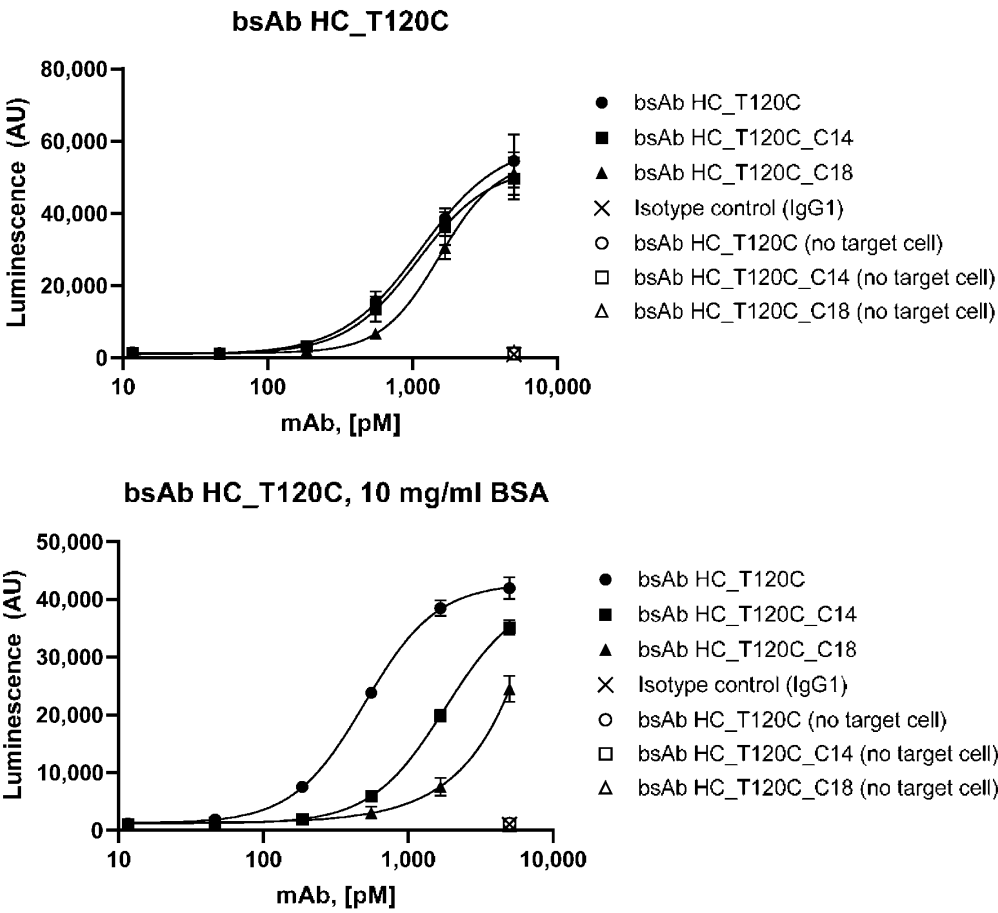


FIG. 13B

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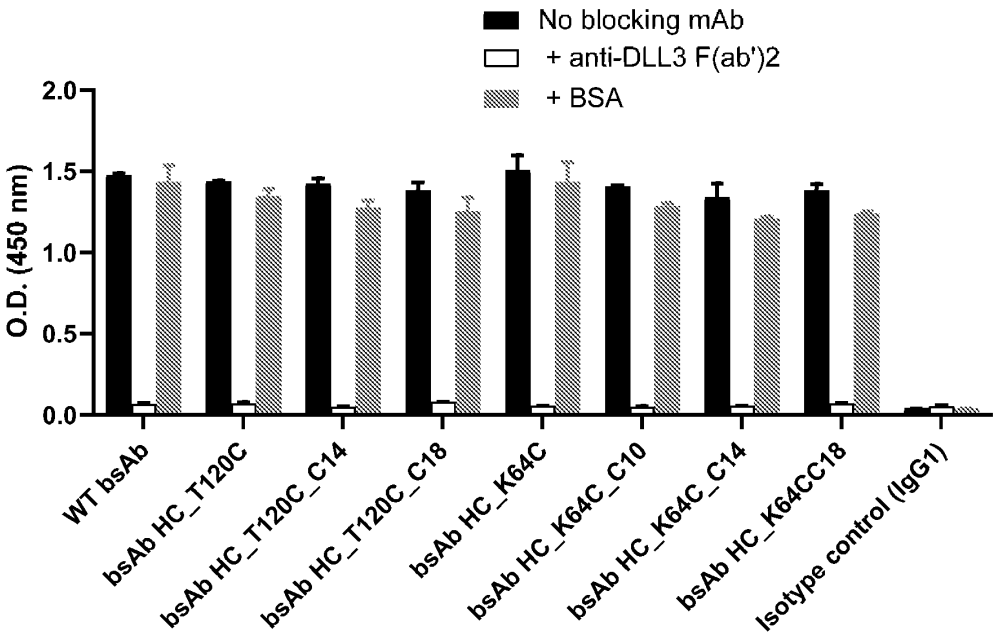


FIG. 14