

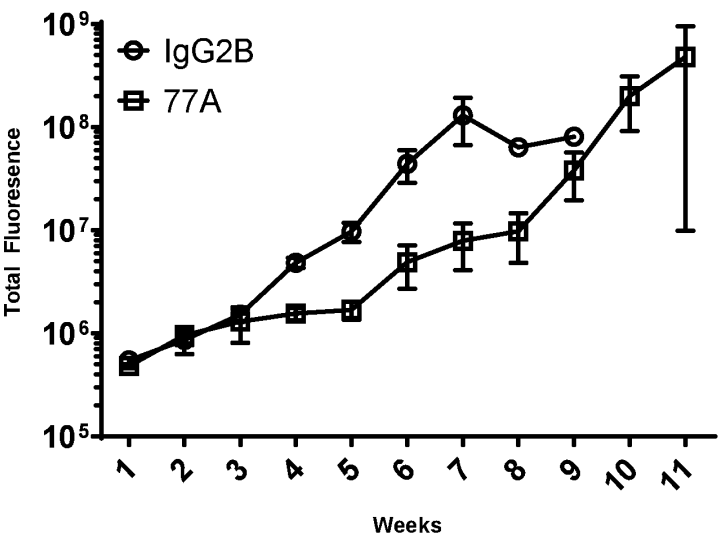


FIG. 1

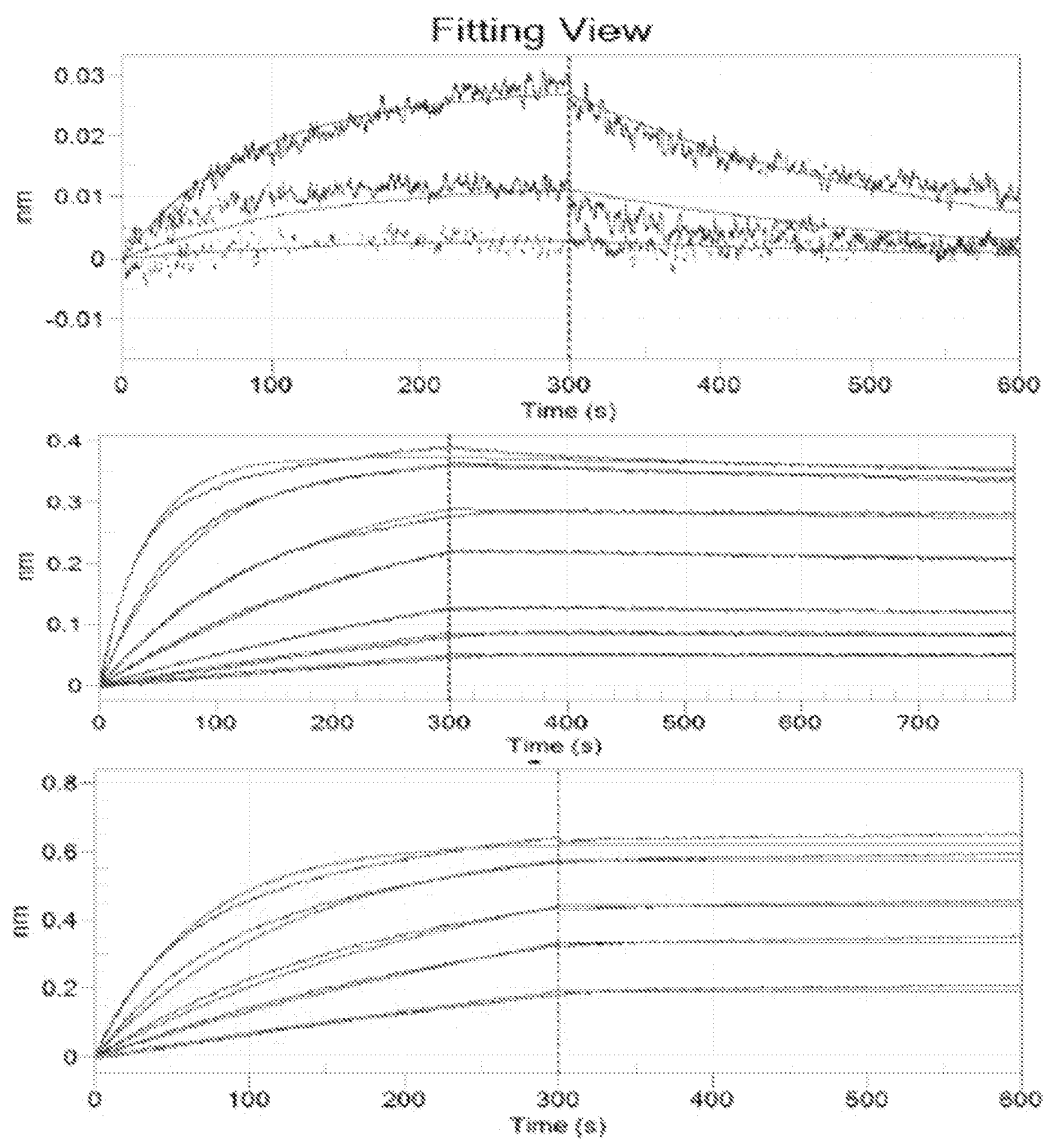


FIG. 2A

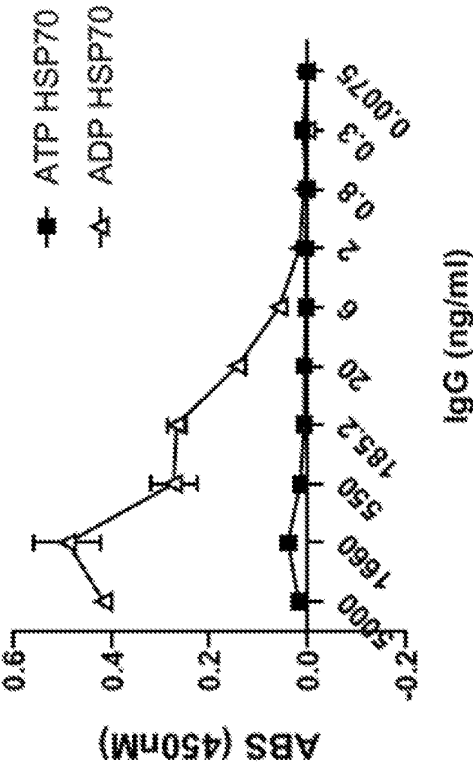


FIG. 2B

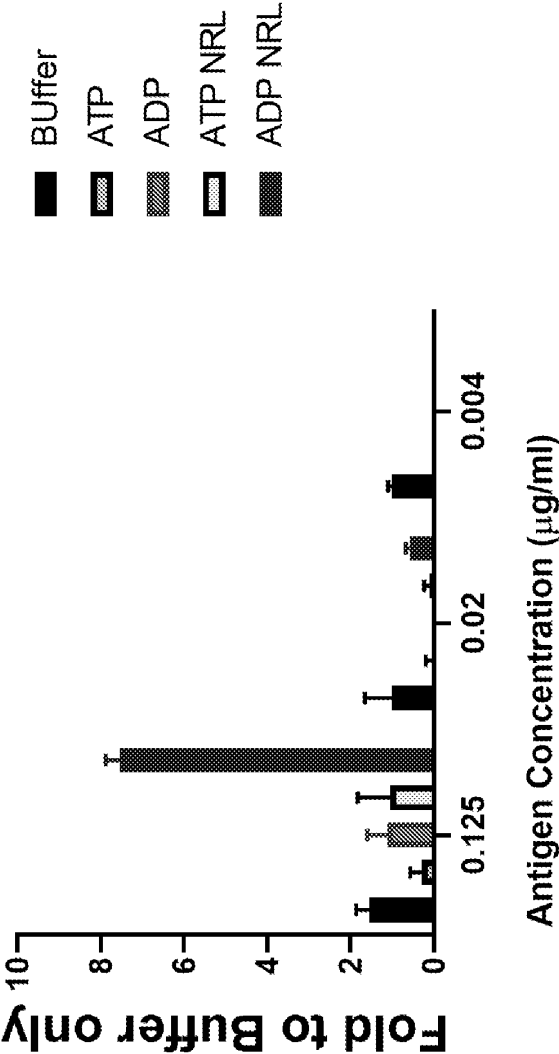
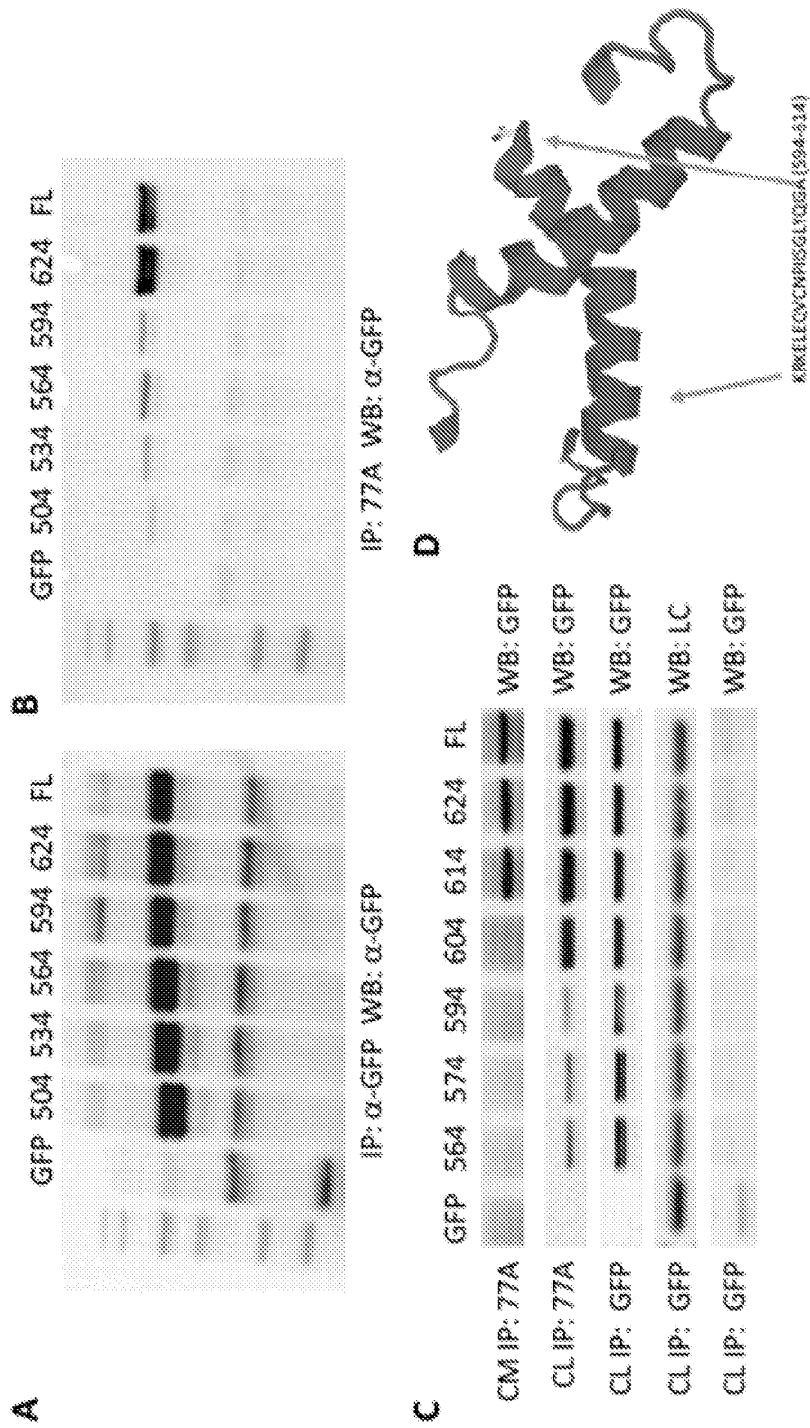


FIG. 2C



FIGS. 3A-D

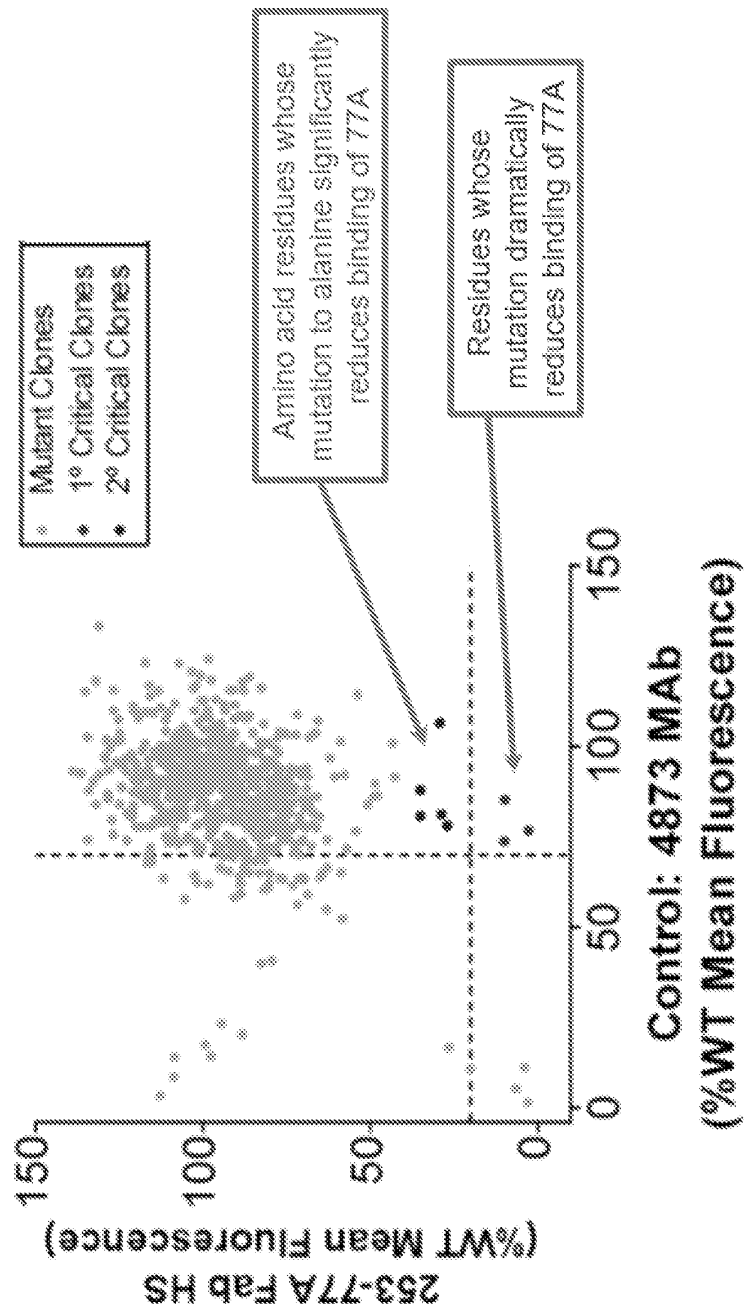


FIG. 3E

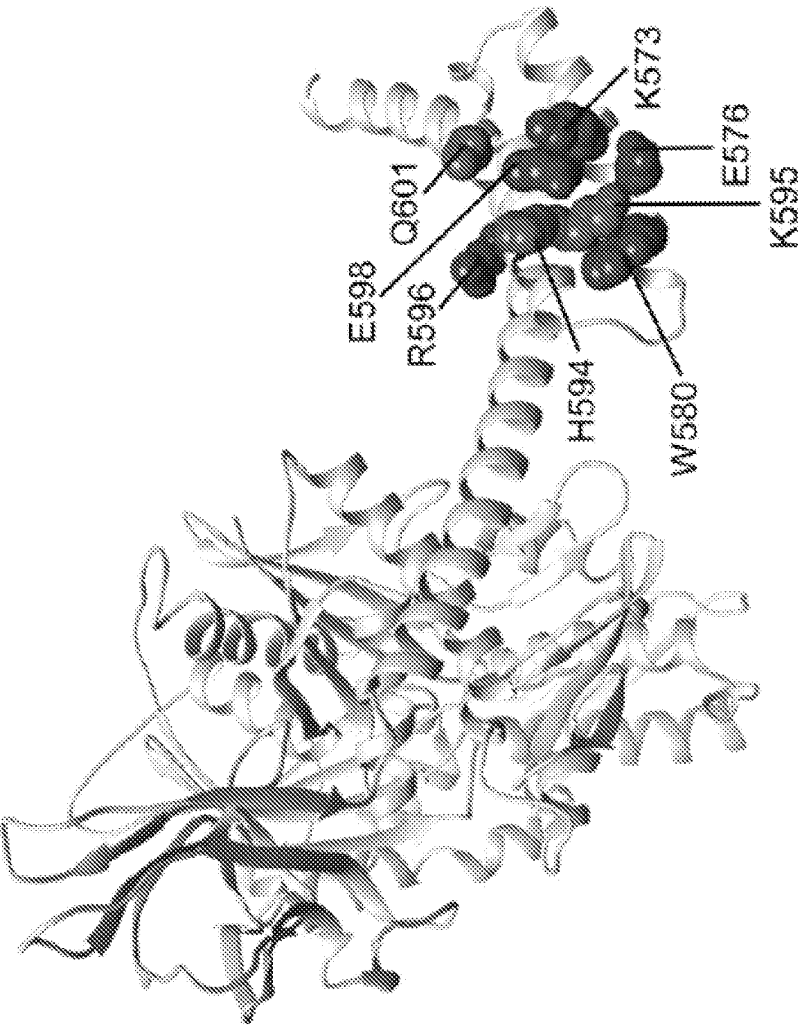
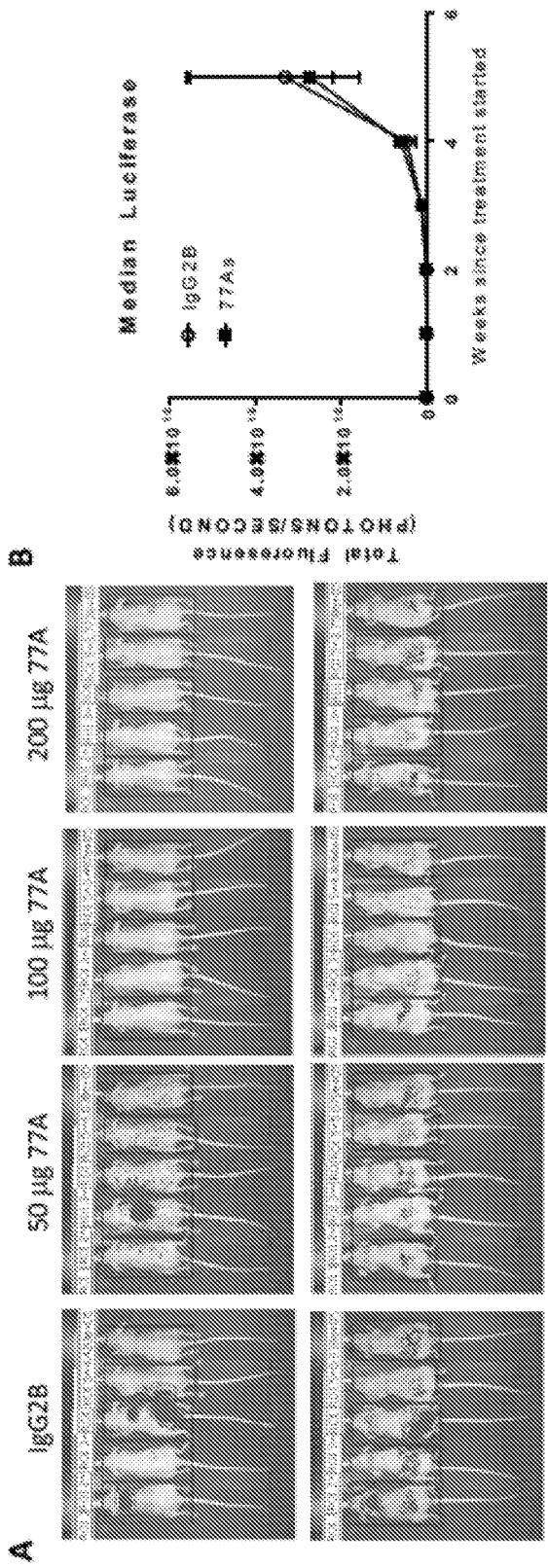


FIG. 3F



FIGS. 4A-B

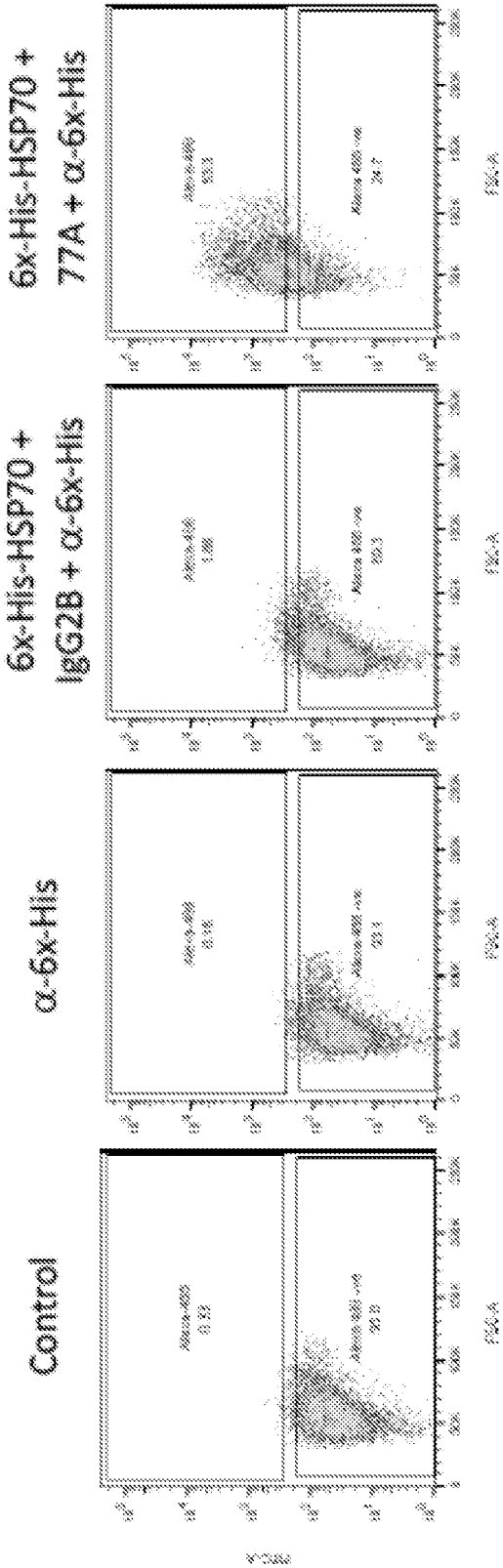


FIG. 5

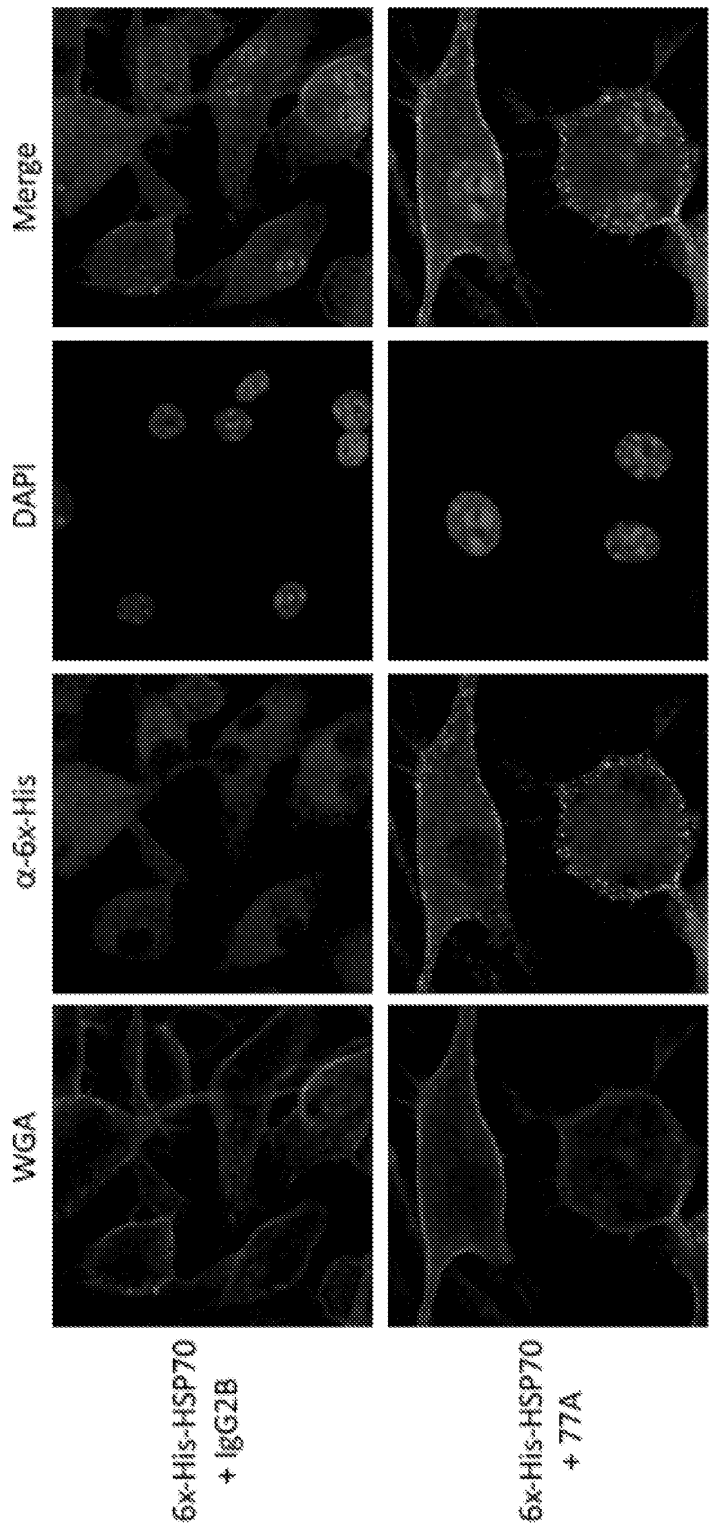


FIG. 6

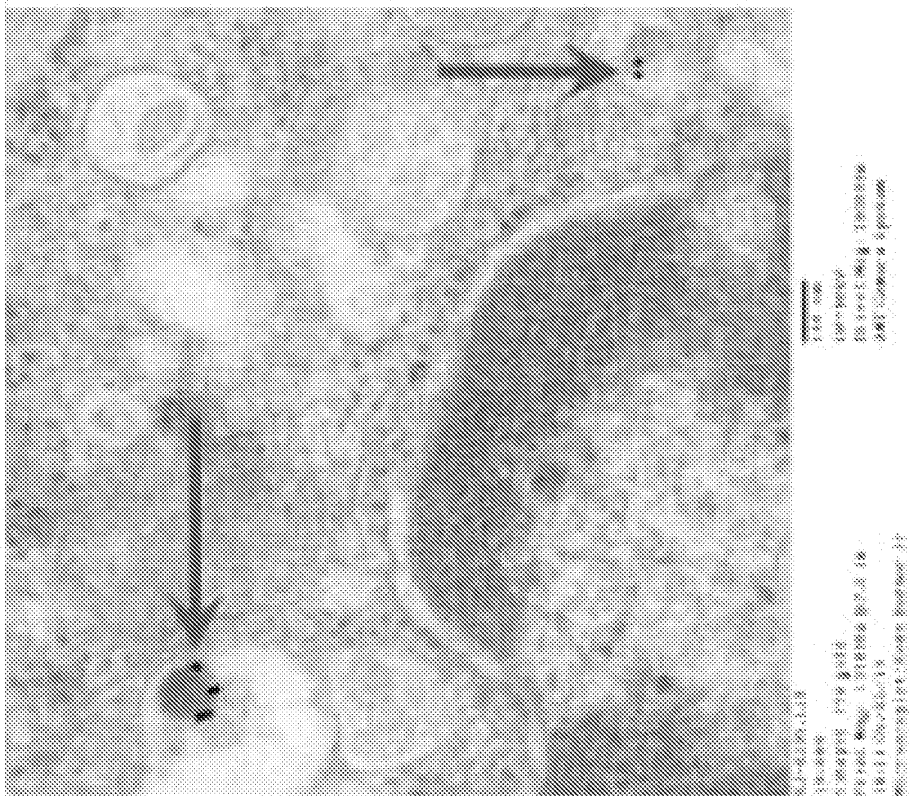


FIG. 7

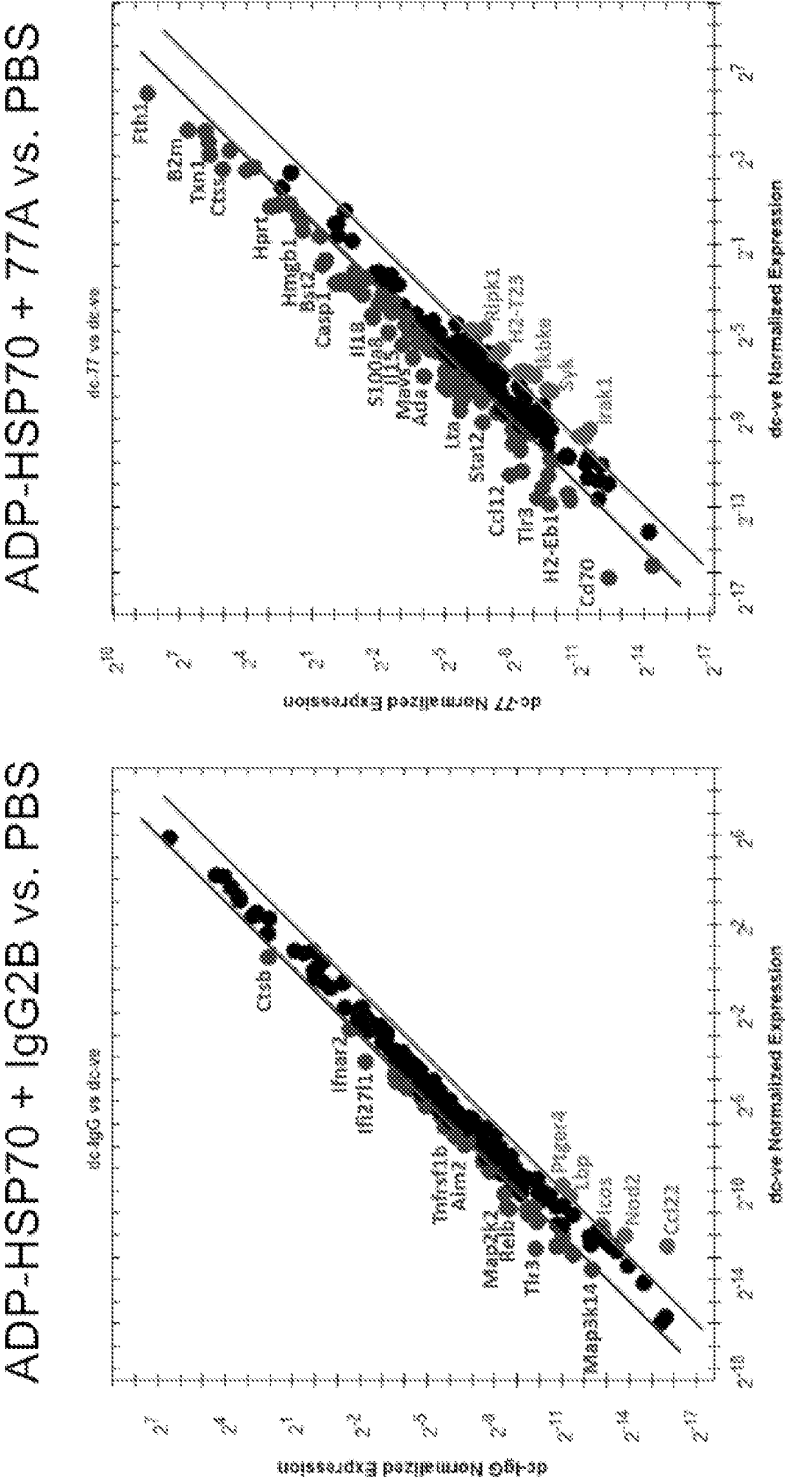


FIG. 8A

| Pathway                                                               | ADP HSP70 IgG2B | ADP HSP70 77A |
|-----------------------------------------------------------------------|-----------------|---------------|
| Dendritic Cell Maturation                                             |                 |               |
| Neuroinflammation Signaling Pathway                                   |                 |               |
| Role of Pattern Recognition Receptors in Recognition of Bacteria      |                 |               |
| Th1 Pathway                                                           |                 |               |
| MIF Regulation of Innate Immunity                                     |                 |               |
| PKC $\delta$ Signaling in T Lymphocytes                               |                 |               |
| Production of Nitric Oxide and Reactive Oxygen Species in Macrophages |                 |               |
| TREM1 Signaling                                                       |                 |               |
| ILK Signaling                                                         |                 |               |
| Tec Kinase Signaling                                                  |                 |               |
| Th2 Pathway                                                           |                 |               |
| Toll-like Receptor Signaling                                          |                 |               |
| Endothelin-1 Signaling                                                |                 |               |
| MIF-mediated Glucocorticoid Regulation                                |                 |               |
| Superpathway of Inositol Phosphate Compounds                          |                 |               |
| HMGB1 Signaling                                                       |                 |               |
| CCR5 Signaling in Macrophages                                         |                 |               |
| Adrenomedullin signaling pathway                                      |                 |               |
| NRF2-mediated Oxidative Stress Response                               |                 |               |
| Renin-Angiotensin Signaling                                           |                 |               |
| LPS-stimulated MAPK Signaling                                         |                 |               |
| LXR/RXR Activation                                                    |                 |               |
| IL-17A Signaling in Gastric Cells                                     |                 |               |
| NF- $\kappa$ B Signaling                                              |                 |               |
| HGF Signaling                                                         |                 |               |
| Cardiac Hypertrophy Signaling                                         |                 |               |
| NGF Signaling                                                         |                 |               |
| Aggri Interactions at Neuromuscular Junction                          |                 |               |
| Cdc42 Signaling                                                       |                 |               |

FIG. 8B

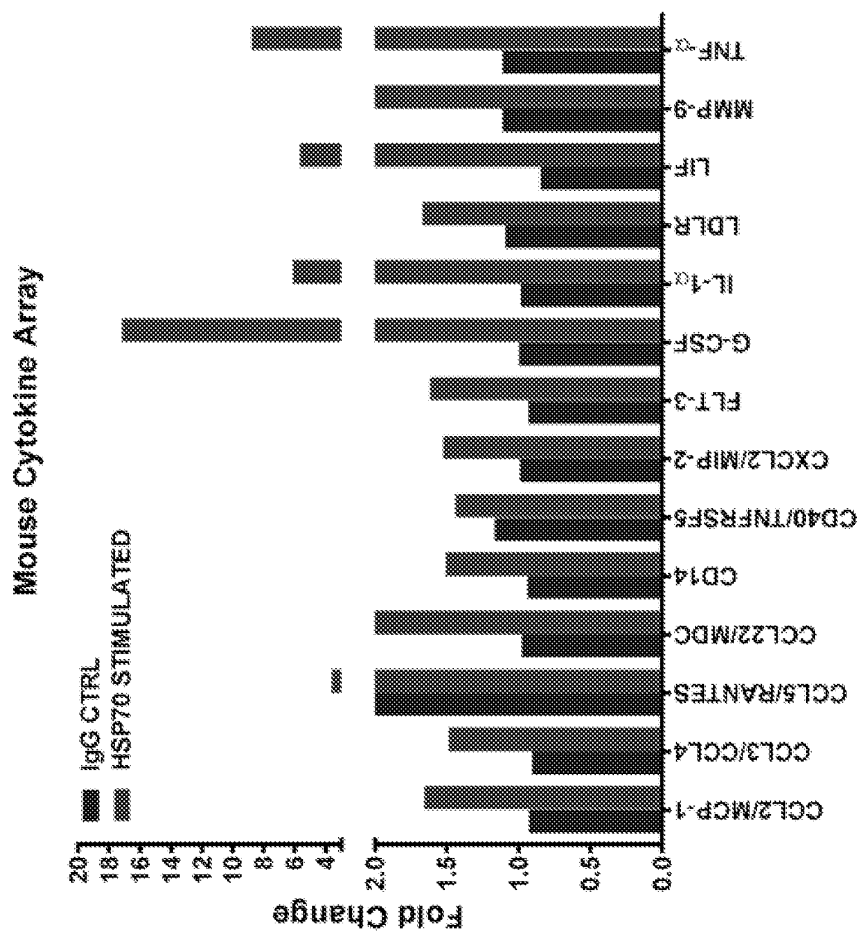
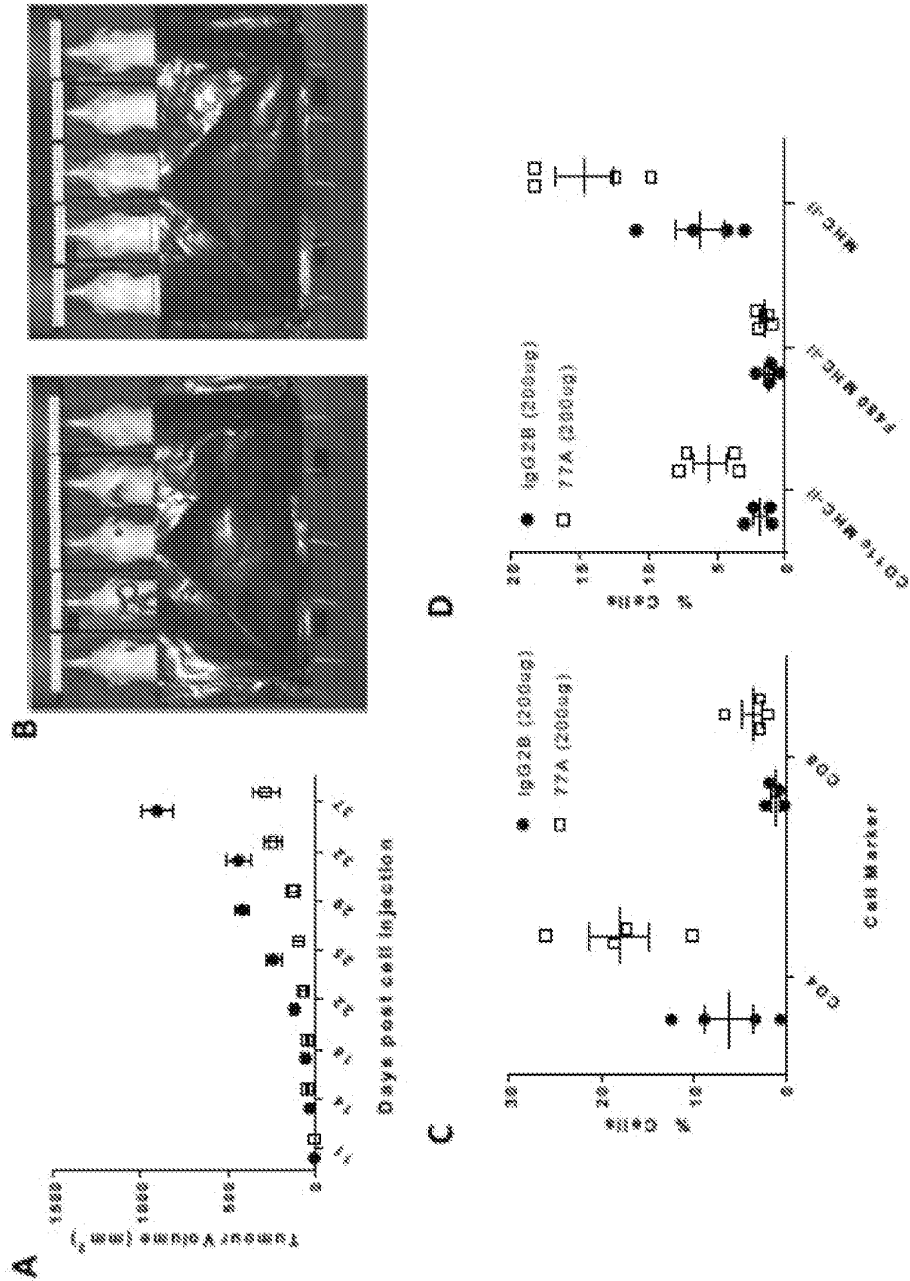


FIG. 8C



FIGS. 9A-D

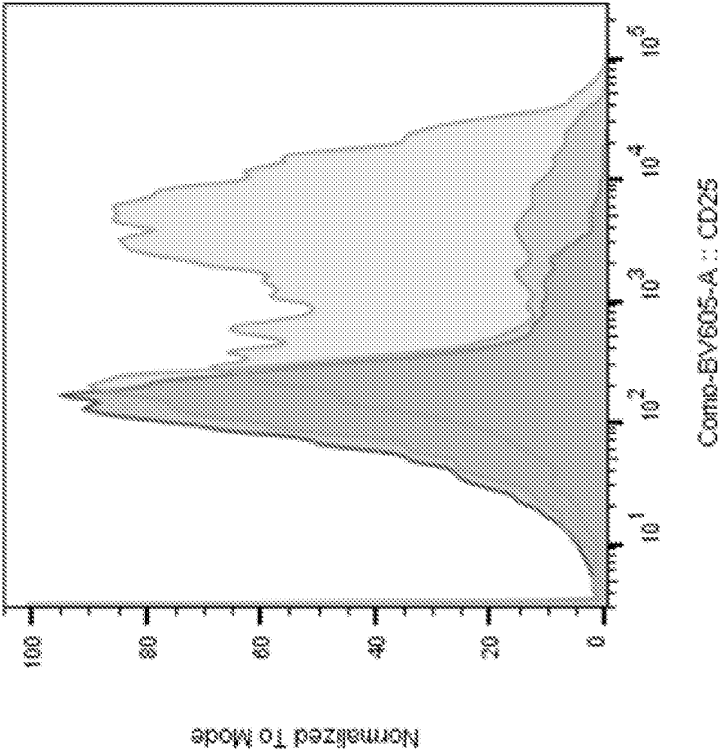


FIG. 9E

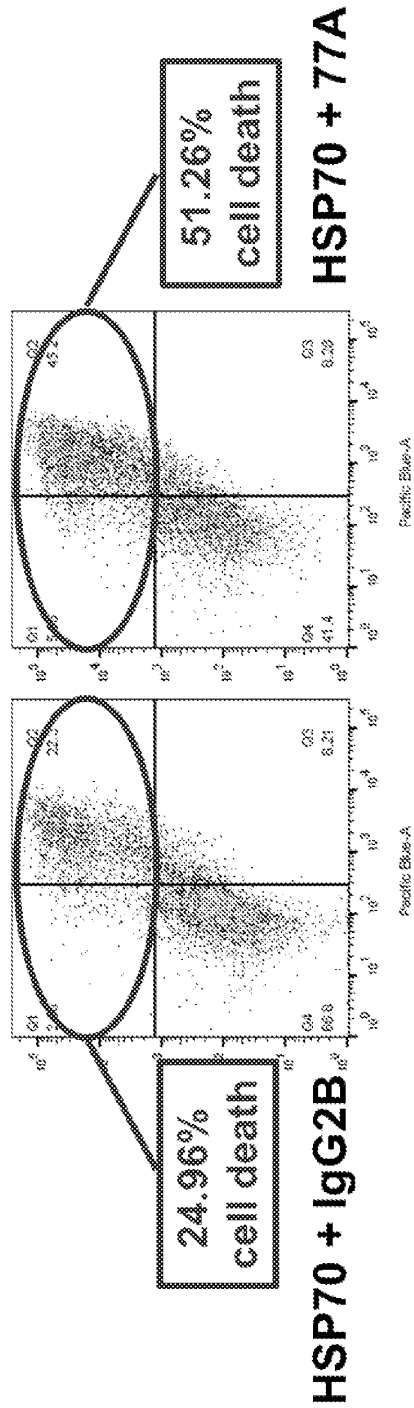


FIG. 9F

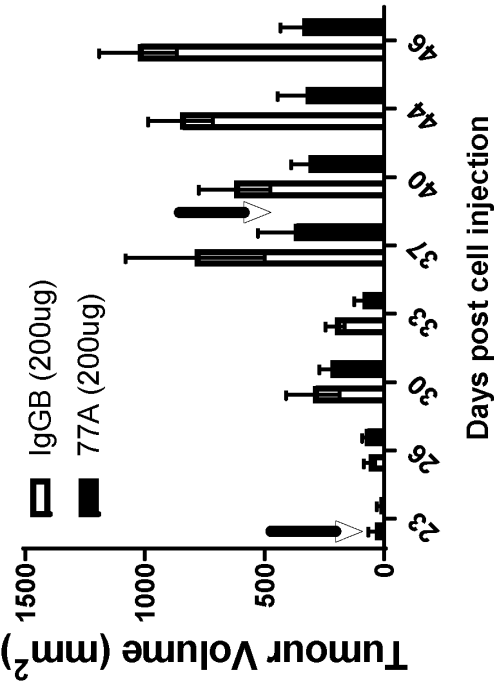


FIG. 9G

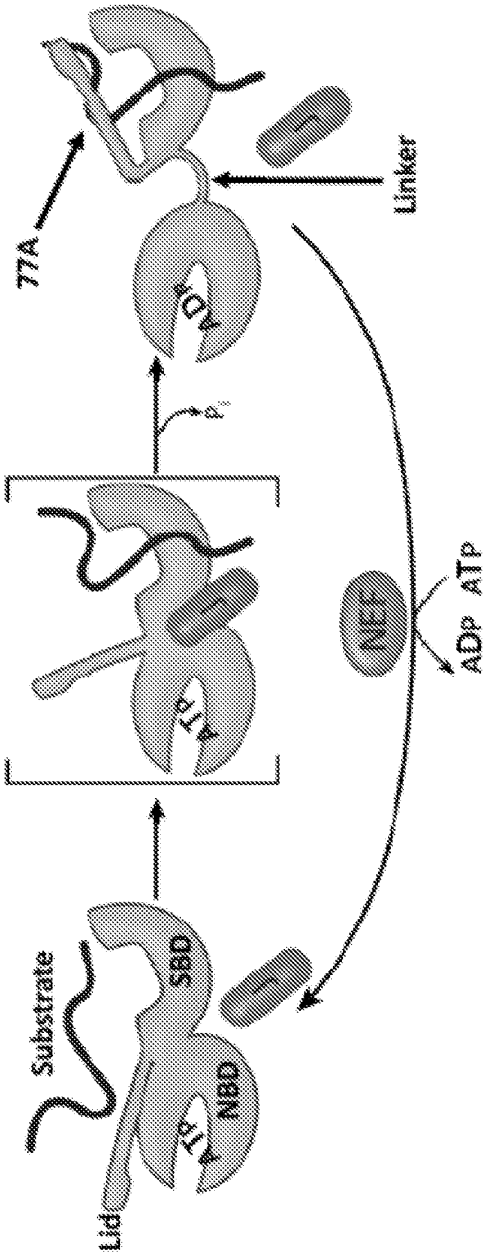
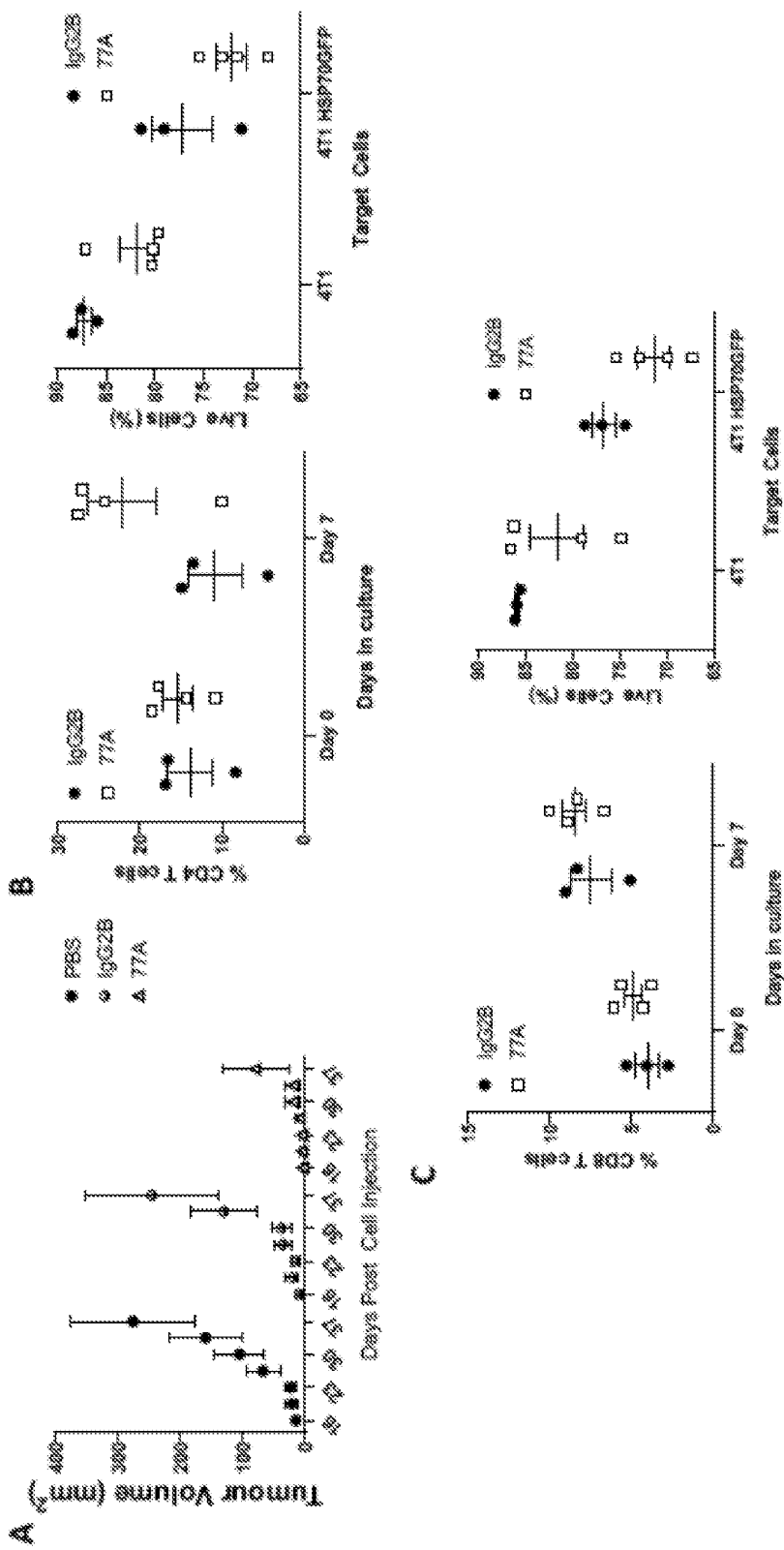
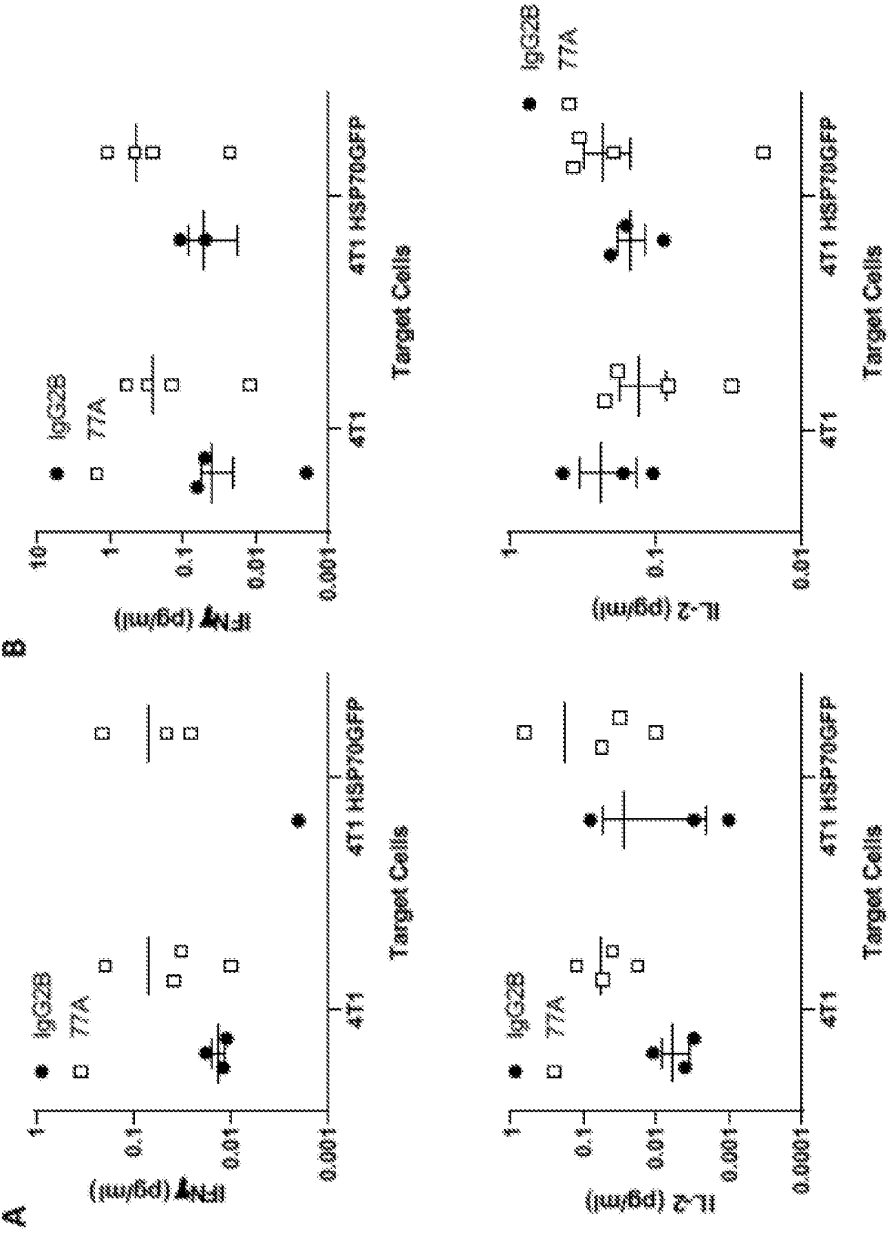


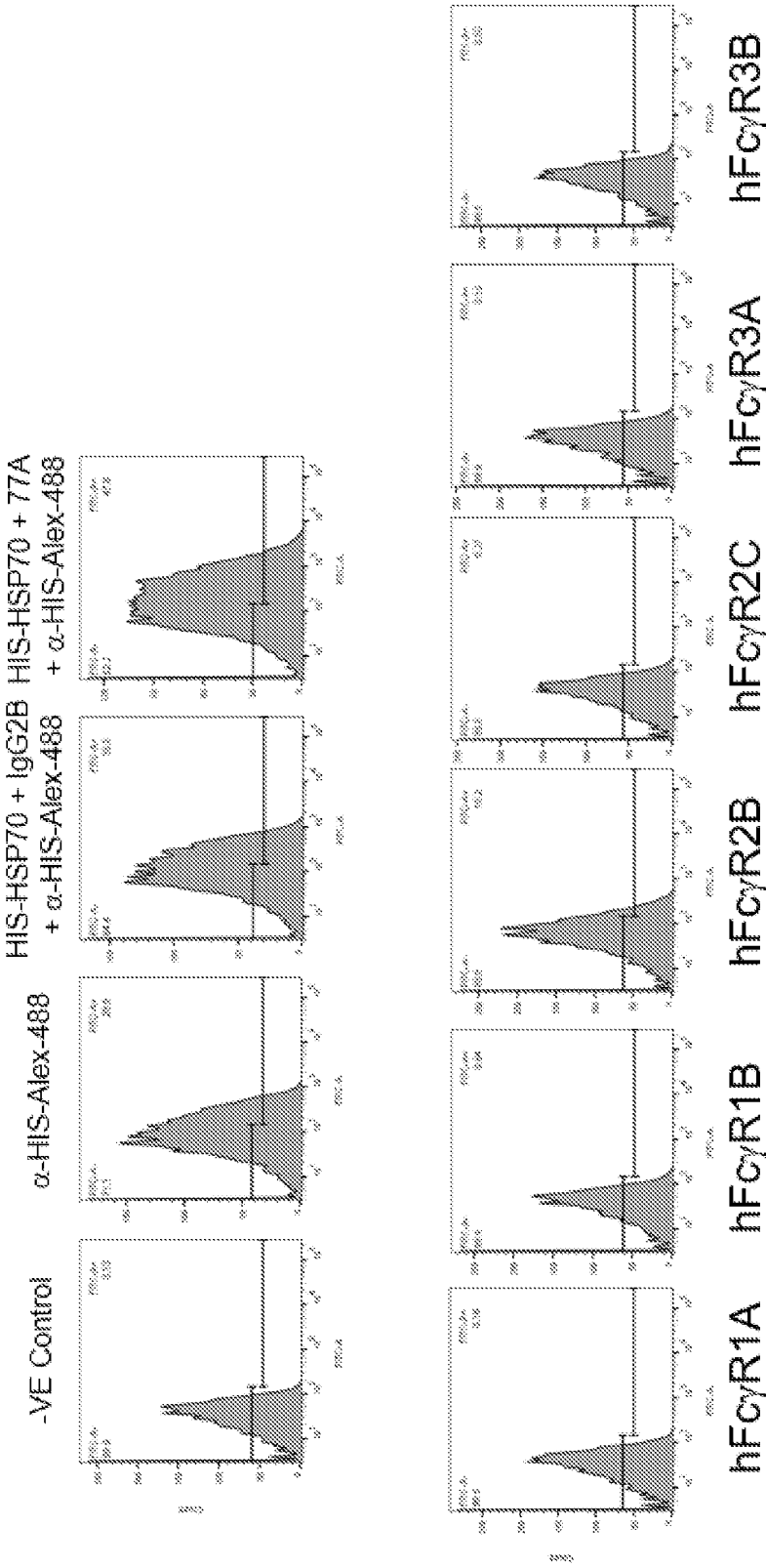
FIG. 10



FIGS. 11A-C



FIGS. 12A-B



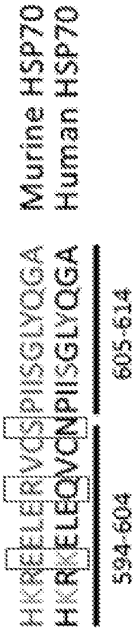


FIG. 14A

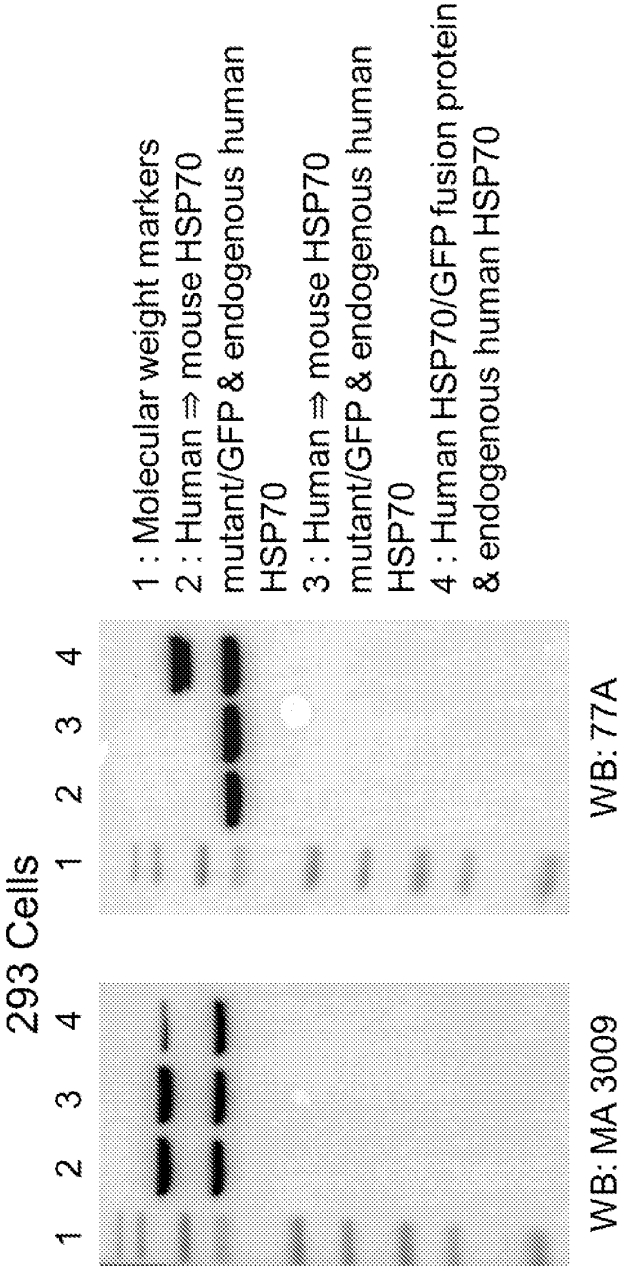
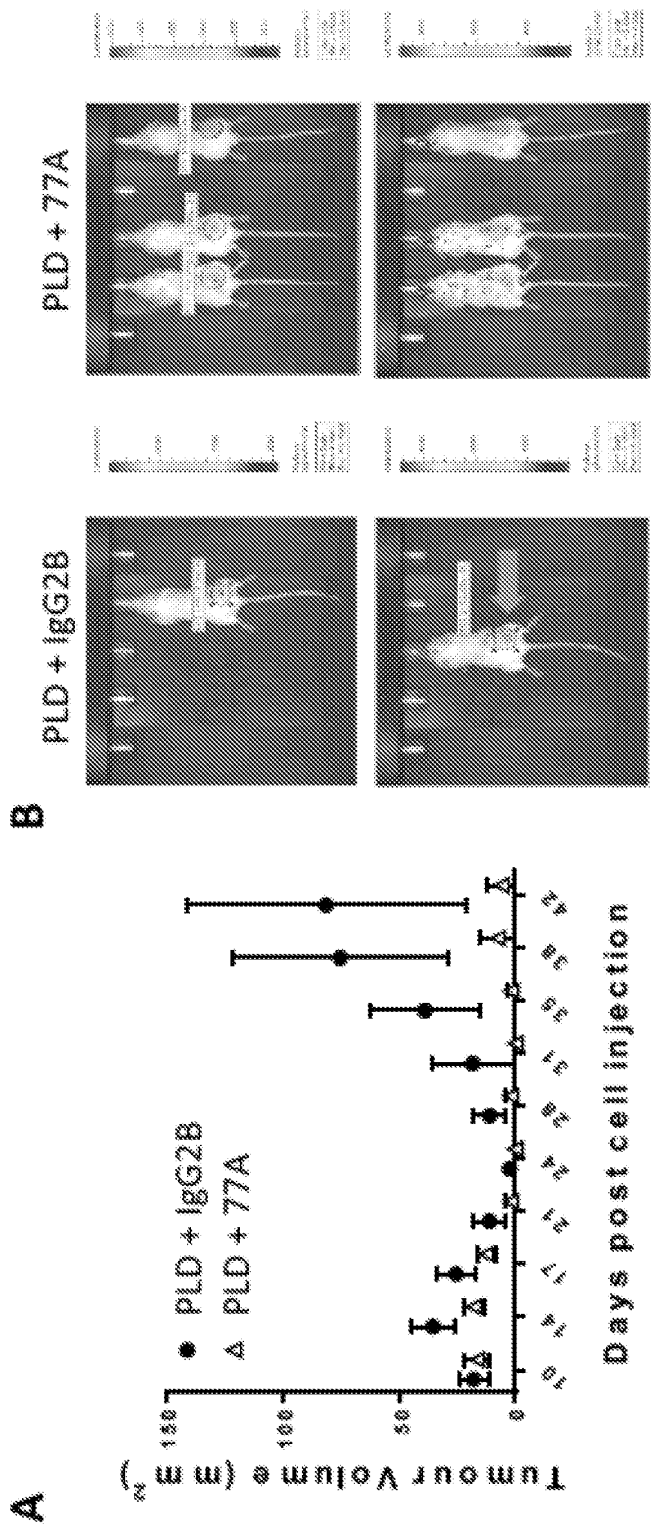


FIG. 14B



FIGS. 15A-B

| Ab      | C92F3-5 | N15F2-5 | m77A   |
|---------|---------|---------|--------|
| C92F3-5 | 0       | 0.4888  | 0.7807 |
| N15F2-5 | 0.4918  | 0       | 0.7614 |
| m77A    | 0.7135  | 0.7384  | 0      |

FIG. 16

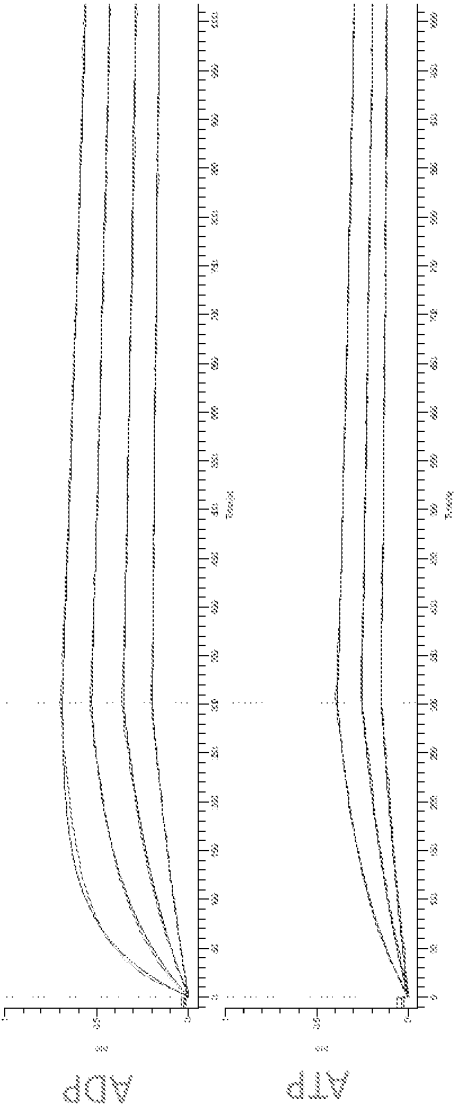


FIG. 17

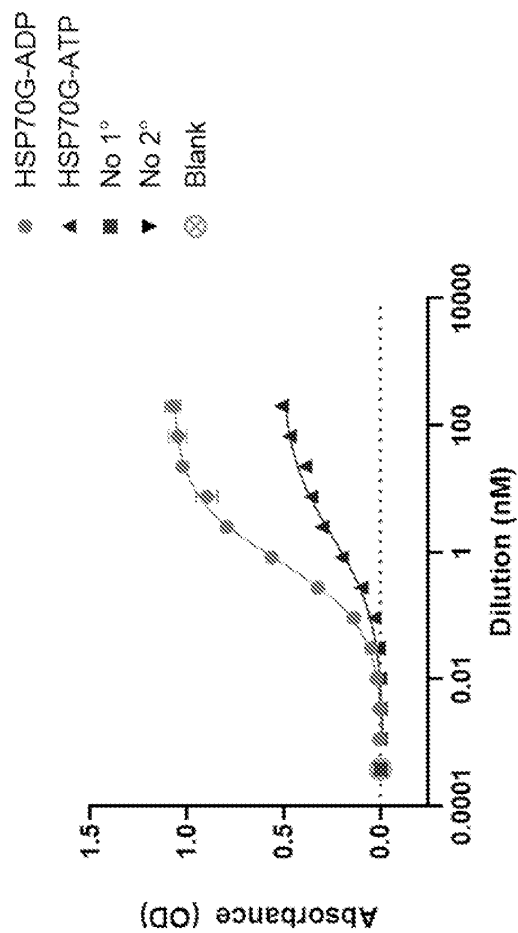


FIG. 18

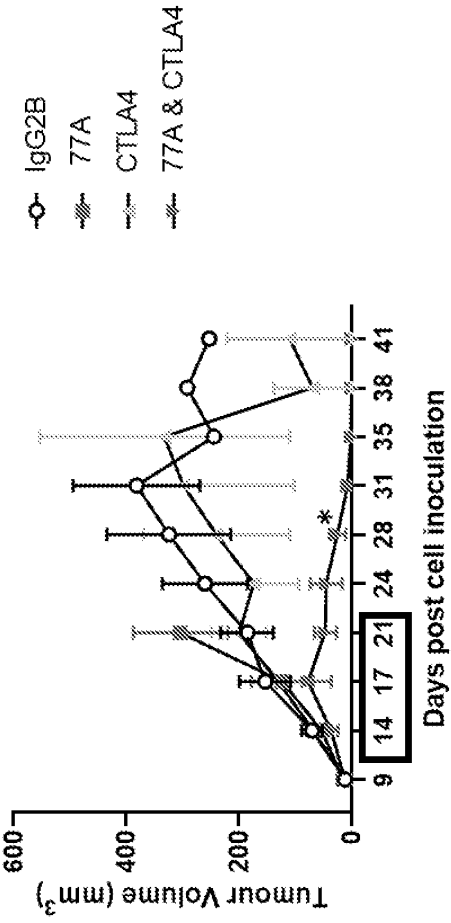


FIG. 19

**FIG. 20A**

**FIG. 20B**

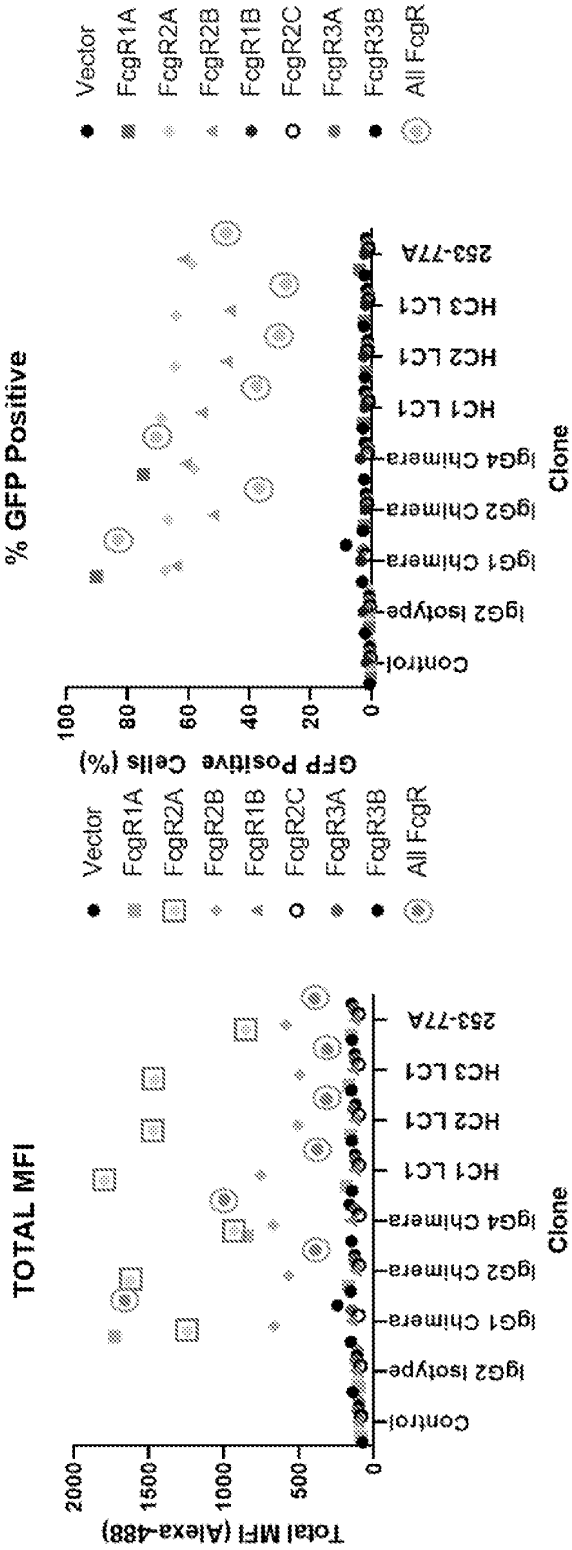


FIG. 21

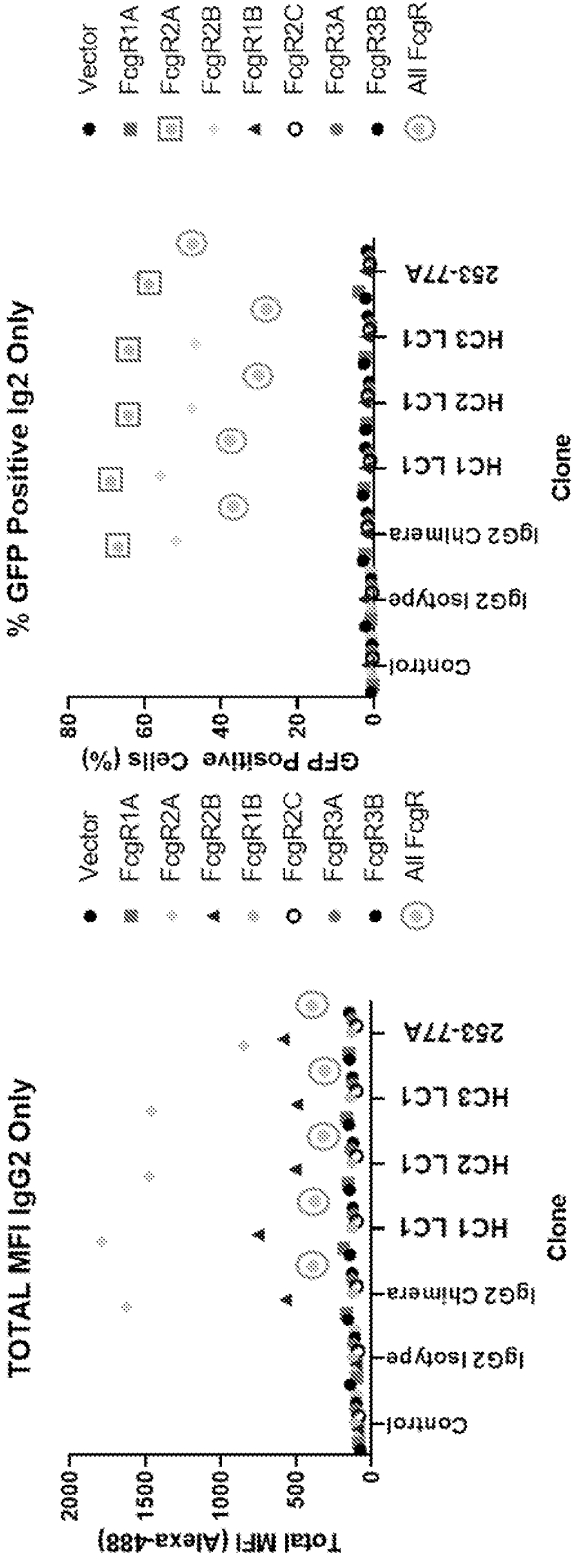


FIG. 22

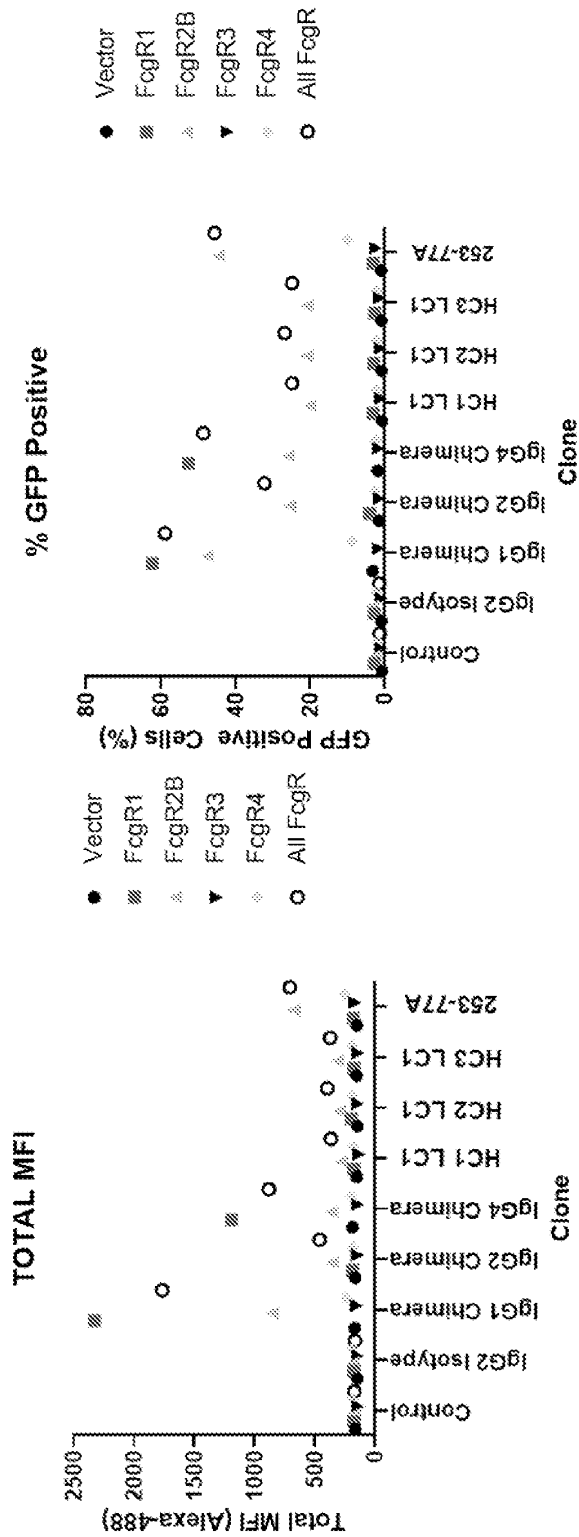


FIG. 23

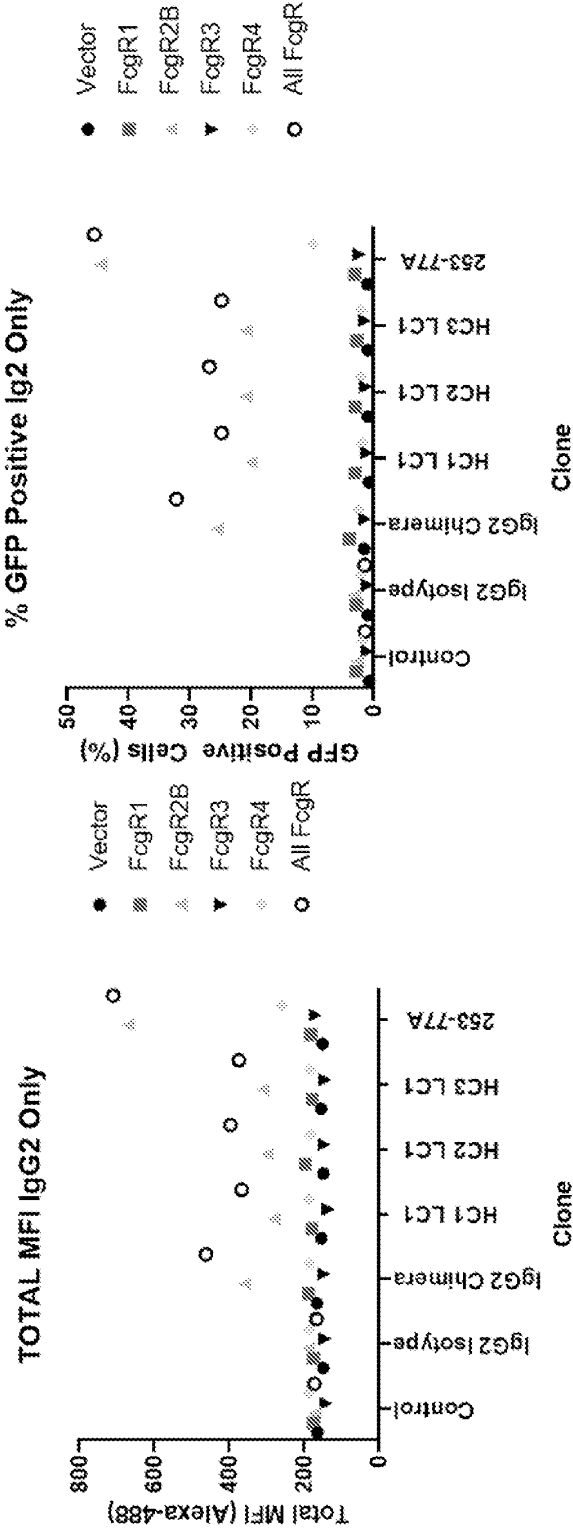


FIG. 24

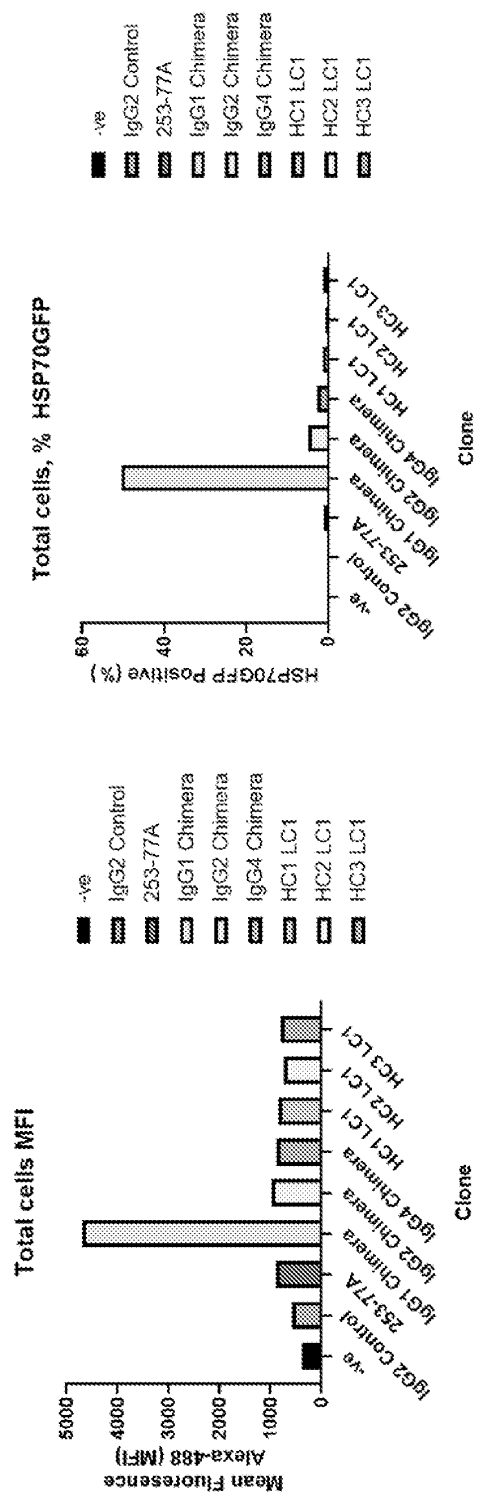


FIG. 25

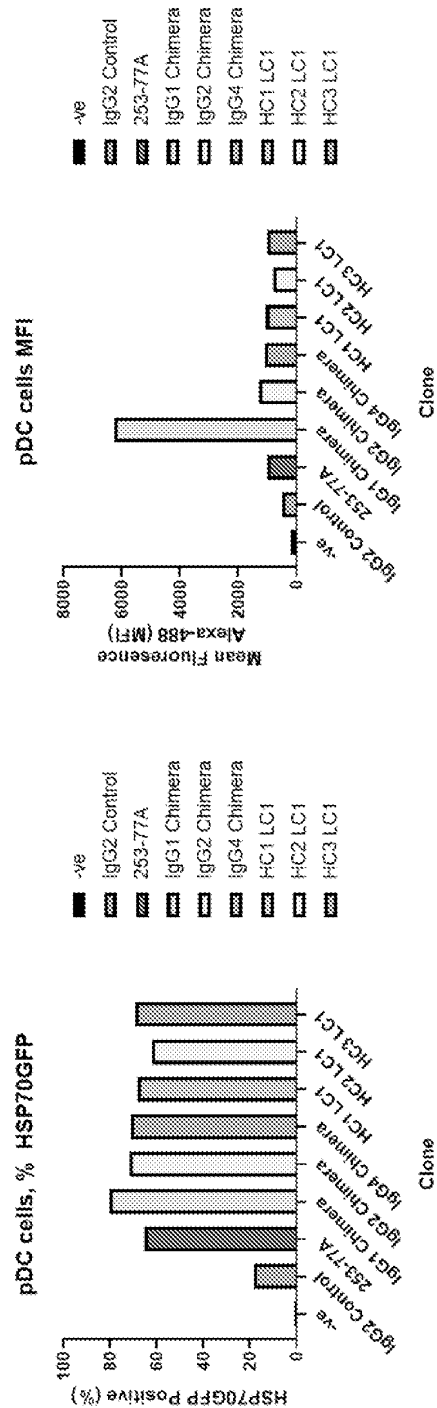


FIG. 26

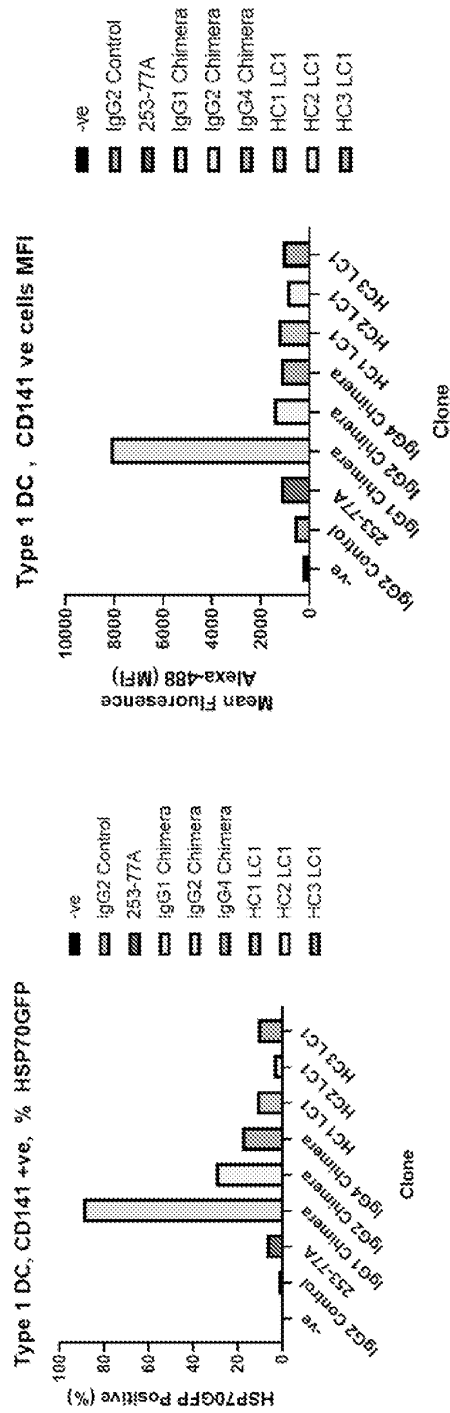


FIG. 27

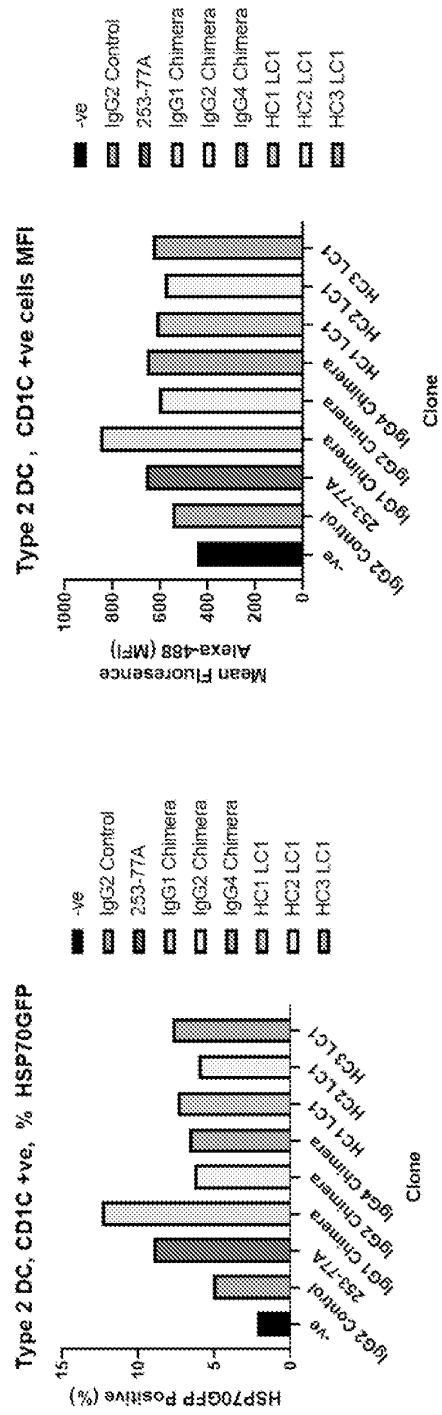


FIG. 28

|                         |                                                             |    |
|-------------------------|-------------------------------------------------------------|----|
| hVH1.1 (SEQ ID NO: 26)  | QIQLVQSGAEVKKPGASVKVSKASGYTFTKYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.2 (SEQ ID NO: 27)  | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.3 (SEQ ID NO: 28)  | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.4 (SEQ ID NO: 29)  | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.5 (SEQ ID NO: 30)  | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.6 (SEQ ID NO: 31)  | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.7 (SEQ ID NO: 32)  | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.8 (SEQ ID NO: 33)  | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.9 (SEQ ID NO: 34)  | QIQLVQSGDEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.10 (SEQ ID NO: 35) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.11 (SEQ ID NO: 36) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.12 (SEQ ID NO: 37) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.13 (SEQ ID NO: 38) | QIQLVQSGAEVKKPGASVKVSKASGYTFTKYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.14 (SEQ ID NO: 39) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.15 (SEQ ID NO: 40) | QIQLVQSGDEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.16 (SEQ ID NO: 41) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.17 (SEQ ID NO: 42) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.18 (SEQ ID NO: 43) | QIQLVQSGTEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.19 (SEQ ID NO: 44) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.20 (SEQ ID NO: 45) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.21 (SEQ ID NO: 46) | QIQLVQSGAEVKKPGASVKVSKASGYTFTKYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.22 (SEQ ID NO: 47) | QIQLVQSGTEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.23 (SEQ ID NO: 48) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |
| hVH1.24 (SEQ ID NO: 49) | QIQLVQSGAEVKKPGASVKVSKASGYTFTKYGMNWVRQAPGQGLEWMGWINTYTGESTY | 60 |
| hVH1.25 (SEQ ID NO: 50) | QIQLVQSGTEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPY  | 60 |

FIG. 29A

|                         |                                                         |    |
|-------------------------|---------------------------------------------------------|----|
| hVH1.26 (SEQ ID NO: 51) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.27 (SEQ ID NO: 52) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.28 (SEQ ID NO: 53) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.29 (SEQ ID NO: 54) | QIHIVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.30 (SEQ ID NO: 55) | QIHIVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.31 (SEQ ID NO: 56) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.32 (SEQ ID NO: 57) | QIQLVQSGVEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.33 (SEQ ID NO: 58) | QIQLVQSGVEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.34 (SEQ ID NO: 59) | QIQLVQSGTEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.35 (SEQ ID NO: 60) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.36 (SEQ ID NO: 61) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.37 (SEQ ID NO: 62) | QIHIVQSGVEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.38 (SEQ ID NO: 63) | QIQLVQSGAEVKKPGASVKVSKASGSFTNYGMNWVRQAPGQGLEWMGWINTYTG  | 60 |
| hVH1.39 (SEQ ID NO: 64) | QIQLVQSGVEVKKPGASVKVSKASGYIFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.40 (SEQ ID NO: 65) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.41 (SEQ ID NO: 66) | QIQLVQSGAEVKKPGASVKVSKASGYTFTKYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.42 (SEQ ID NO: 67) | QIQLVQSGSEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.43 (SEQ ID NO: 68) | QIQLVQSGTEVKKPGASVKVSKASGSFTNYGMNWVRQAPGQGLEWMGWINTYTG  | 60 |
| hVH1.44 (SEQ ID NO: 69) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.45 (SEQ ID NO: 70) | QIQLVQSGSEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.46 (SEQ ID NO: 71) | QIQLVQSGPEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.47 (SEQ ID NO: 72) | QIQLVQSGSEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.48 (SEQ ID NO: 73) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.49 (SEQ ID NO: 74) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |
| hVH1.50 (SEQ ID NO: 75) | QIQLVQSGAEVKKPGASVKVSKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYTG | 60 |

FIG. 29B

|                          |                                                              |    |
|--------------------------|--------------------------------------------------------------|----|
| hVH1.51 (SEQ ID NO: 76)  | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGEATY | 60 |
| hVH1.52 (SEQ ID NO: 77)  | QIQLVQSGAEVKKPGASVKVSKASGYIFTNYGMNWVRQAPGQGLEWMGWINTYTGESTY  | 60 |
| hVH1.53 (SEQ ID NO: 78)  | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPTY | 60 |
| hVH1.54 (SEQ ID NO: 79)  | QIHIVQSGDEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPTY | 60 |
| hVH1.55 (SEQ ID NO: 80)  | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.56 (SEQ ID NO: 81)  | QIQLVQSGSEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.57 (SEQ ID NO: 82)  | QIQLVQSGPEVKKPGASVKVSKASGYIFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY  | 60 |
| hVH1.58 (SEQ ID NO: 83)  | QIHIVQSGDEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.59 (SEQ ID NO: 84)  | QIQLVQSGPEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.60 (SEQ ID NO: 85)  | QIQLVQSGVEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.61 (SEQ ID NO: 86)  | QIQLVQSGVEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.62 (SEQ ID NO: 87)  | QIQLVQSGPEVKKPGASVKVSKASGYIFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY  | 60 |
| hVH1.63 (SEQ ID NO: 88)  | QIHIVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPTY | 60 |
| hVH1.64 (SEQ ID NO: 89)  | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPTY | 60 |
| hVH1.65 (SEQ ID NO: 90)  | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPTY | 60 |
| hVH1.66 (SEQ ID NO: 91)  | QIHIVQSGAEVKKPGASVKVSKASGYIFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY  | 60 |
| hVH1.67 (SEQ ID NO: 92)  | QIQLVQSGTEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.68 (SEQ ID NO: 93)  | QIHIVQSGPEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.69 (SEQ ID NO: 94)  | QIHIVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.70 (SEQ ID NO: 95)  | QIHIVQSGAEVKKPGASVKVSKASGYIFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY  | 60 |
| hVH1.71 (SEQ ID NO: 96)  | QIQLVQSGVEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.72 (SEQ ID NO: 97)  | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPTY | 60 |
| hVH1.73 (SEQ ID NO: 98)  | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGEPTY | 60 |
| hVH1.74 (SEQ ID NO: 99)  | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.75 (SEQ ID NO: 100) | QIQLVQSGAEVKKPGASVKVSKASGYIFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY  | 60 |
| hVH1.76 (SEQ ID NO: 101) | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.77 (SEQ ID NO: 102) | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |
| hVH1.78 (SEQ ID NO: 103) | QIQLVQSGAEVKKPGASVKVSKASGYFTFTNYGMNWVRQAPGQGLEWMGWINTYTGETTY | 60 |

\*\*;\*\*\*\*\* \*\*\*\*\* \*\*;\*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*

FIG. 29C

|                         |                                                           |     |
|-------------------------|-----------------------------------------------------------|-----|
| hVH1.1 (SEQ ID NO: 26)  | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.2 (SEQ ID NO: 27)  | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.3 (SEQ ID NO: 28)  | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHRMDYWGQGLTVTVSS  | 116 |
| hVH1.4 (SEQ ID NO: 29)  | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.5 (SEQ ID NO: 30)  | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.6 (SEQ ID NO: 31)  | ADDFKGRFTFTTDTSTRAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS   | 116 |
| hVH1.7 (SEQ ID NO: 32)  | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHFMDDYWGQGLTVTVSS | 116 |
| hVH1.8 (SEQ ID NO: 33)  | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHTMDYWGQGLTVTVSS  | 116 |
| hVH1.9 (SEQ ID NO: 34)  | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.10 (SEQ ID NO: 35) | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHPMDYWGQGLTVTVSS  | 116 |
| hVH1.11 (SEQ ID NO: 36) | TDDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.12 (SEQ ID NO: 37) | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHVMDYWGQGLTVTVSS  | 116 |
| hVH1.13 (SEQ ID NO: 38) | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHSMDYWGQGLTVTVSS  | 116 |
| hVH1.14 (SEQ ID NO: 39) | VDDFKGRFTFTTDTSTSTAYMDLRLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS   | 116 |
| hVH1.15 (SEQ ID NO: 40) | SDDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.16 (SEQ ID NO: 41) | SDDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.17 (SEQ ID NO: 42) | ADDFKGRFTFTTDTSTRAYMELRSLRSDDTAVYFCARYDHTMDYWGQGLTVTVSS   | 116 |
| hVH1.18 (SEQ ID NO: 43) | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHTMDYWGQGLTVTVSS  | 116 |
| hVH1.19 (SEQ ID NO: 44) | ADDFKGRFTFTTDTSTSTAYMEVRLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS   | 116 |
| hVH1.20 (SEQ ID NO: 45) | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHMDYWGQGLTVTVSS   | 116 |
| hVH1.21 (SEQ ID NO: 46) | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHNMDYWGQGLTVTVSS  | 116 |
| hVH1.22 (SEQ ID NO: 47) | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHHMDYWGQGLTVTVSS  | 116 |
| hVH1.23 (SEQ ID NO: 48) | ADDFKGRFTFTTDTSTTTAYMELRSLRSDDTAVYFCARYDHHMDYWGQGLTVTVSS  | 116 |
| hVH1.24 (SEQ ID NO: 49) | ADDFKGRFTFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHVMDYWGQGLTVTVSS  | 116 |
| hVH1.25 (SEQ ID NO: 50) | ADDFKGRFTFTTDTSTRAYMELRSLRSDDTAVYFCARYDHIMDYWGQGLTVTVSS   | 116 |

FIG. 29D

|                         |                                                         |     |
|-------------------------|---------------------------------------------------------|-----|
| hVH1.26 (SEQ ID NO: 51) | SDDFKGRFTTTDTSTRTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.27 (SEQ ID NO: 52) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.28 (SEQ ID NO: 53) | ADDFKGRFTTTDTSTTTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.29 (SEQ ID NO: 54) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.30 (SEQ ID NO: 55) | ADDFKGRFTTTDTSTSTVMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.31 (SEQ ID NO: 56) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCVRYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.32 (SEQ ID NO: 57) | ADDFKGRFTTTDTSTSTVMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.33 (SEQ ID NO: 58) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.34 (SEQ ID NO: 59) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.35 (SEQ ID NO: 60) | ADDFKGRFTTTDTSTSTAYMDLRLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS  | 116 |
| hVH1.36 (SEQ ID NO: 61) | GDDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCGRYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.37 (SEQ ID NO: 62) | TDDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.38 (SEQ ID NO: 63) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.39 (SEQ ID NO: 64) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.40 (SEQ ID NO: 65) | TDDFKGRFTTTDTSTRTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.41 (SEQ ID NO: 66) | GDDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.42 (SEQ ID NO: 67) | GDDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.43 (SEQ ID NO: 68) | ADDFKGRFTTTDTSTTTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.44 (SEQ ID NO: 69) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.45 (SEQ ID NO: 70) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCGRYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.46 (SEQ ID NO: 71) | GDDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCGRYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.47 (SEQ ID NO: 72) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.48 (SEQ ID NO: 73) | ADDFKGRFTTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |
| hVH1.49 (SEQ ID NO: 74) | ADDFKGRFTTTDTSTTTGYMELRSLRSDDTAVYFCARYDHAMDYWGQGLTVTVSS | 116 |

FIG. 29E

|                          |                                                       |     |
|--------------------------|-------------------------------------------------------|-----|
| hVH1.50 (SEQ ID NO: 75)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.51 (SEQ ID NO: 76)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.52 (SEQ ID NO: 77)  | ADDFKGRFTTDTSTSTVYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.53 (SEQ ID NO: 78)  | ADDFKGRFTTDTSTSTAYMDLRLRSDDTAVYFCARYDHAMDYWGQGLVTVSS  | 116 |
| hVH1.54 (SEQ ID NO: 79)  | TDDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.55 (SEQ ID NO: 80)  | TDDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.56 (SEQ ID NO: 81)  | ADDFKGRFTTDTSTSTAYMDLRLRSDDTAVYFCARYDHAMDYWGQGLVTVSS  | 116 |
| hVH1.57 (SEQ ID NO: 82)  | ADDFKGRFTTDTSTTTVMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS  | 116 |
| hVH1.58 (SEQ ID NO: 83)  | ADDFKGRFTTDTSTSTGYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.59 (SEQ ID NO: 84)  | ADDFKGRFTTDTSTTTGYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.60 (SEQ ID NO: 85)  | SDDFKGRFTTDTSTSTAYMEVRLRSDDTAVYFCARYDHAMDYWGQGLVTVSS  | 116 |
| hVH1.61 (SEQ ID NO: 86)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.62 (SEQ ID NO: 87)  | GDDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.63 (SEQ ID NO: 88)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.64 (SEQ ID NO: 89)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.65 (SEQ ID NO: 90)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.66 (SEQ ID NO: 91)  | ADDFKGRFTTDTSTSTVYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.67 (SEQ ID NO: 92)  | ADDFKGRFTTDTSTSTAYMDLRLRSDDTAVYFCARYDHAMDYWGQGLVTVSS  | 116 |
| hVH1.68 (SEQ ID NO: 93)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.69 (SEQ ID NO: 94)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.70 (SEQ ID NO: 95)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.71 (SEQ ID NO: 96)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.72 (SEQ ID NO: 97)  | VDDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.73 (SEQ ID NO: 98)  | ADDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.74 (SEQ ID NO: 99)  | ADDFKGRFTTDTSTTTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.75 (SEQ ID NO: 100) | ADDFKGRFTTDTSTTTGYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.76 (SEQ ID NO: 101) | GDDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.77 (SEQ ID NO: 102) | TDDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |
| hVH1.78 (SEQ ID NO: 103) | TDDFKGRFTTDTSTSTAYMELRSLRSDDTAVYFCARYDHAMDYWGQGLVTVSS | 116 |

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FIG. 29F

|                          |                                                               |    |
|--------------------------|---------------------------------------------------------------|----|
| hVL1.1 (SEQ ID NO: 105)  | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.2 (SEQ ID NO: 106)  | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.3 (SEQ ID NO: 107)  | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.4 (SEQ ID NO: 108)  | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKPGQSPKLLIYWTSTR  | 60 |
| hVL1.5 (SEQ ID NO: 109)  | EIVLTQSPDLSAVSLGERATINCKSSQSLFNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR | 60 |
| hVL1.6 (SEQ ID NO: 110)  | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.7 (SEQ ID NO: 111)  | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.8 (SEQ ID NO: 112)  | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLSWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.9 (SEQ ID NO: 113)  | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLTWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.10 (SEQ ID NO: 114) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.11 (SEQ ID NO: 115) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.12 (SEQ ID NO: 116) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.13 (SEQ ID NO: 117) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.14 (SEQ ID NO: 118) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.15 (SEQ ID NO: 119) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.16 (SEQ ID NO: 120) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.17 (SEQ ID NO: 121) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.18 (SEQ ID NO: 122) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.19 (SEQ ID NO: 123) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.20 (SEQ ID NO: 124) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLTWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.21 (SEQ ID NO: 125) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.22 (SEQ ID NO: 126) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.23 (SEQ ID NO: 127) | EIVLTQSPDLSAVSLGERATINCKSSQSLVNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR | 60 |
| hVL1.24 (SEQ ID NO: 128) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.25 (SEQ ID NO: 129) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |
| hVL1.26 (SEQ ID NO: 130) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQKSGQSPKLLIYWTSTR   | 60 |
| hVL1.27 (SEQ ID NO: 131) | EIVLTQSPDLSAVSLGERATINCKSSQSLNSGTRKKNYLAWYQQKAGQSPKLLIYWTSTR  | 60 |

FIG. 29G

**FIG. 29H**

|                          |                                                     |     |
|--------------------------|-----------------------------------------------------|-----|
| hVL1.1 (SEQ ID NO: 105)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.2 (SEQ ID NO: 106)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYNLYTFGGGKVEIK | 112 |
| hVL1.3 (SEQ ID NO: 107)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.4 (SEQ ID NO: 108)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.5 (SEQ ID NO: 109)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.6 (SEQ ID NO: 110)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.7 (SEQ ID NO: 111)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.8 (SEQ ID NO: 112)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYSLYTFGGGKVEIK | 112 |
| hVL1.9 (SEQ ID NO: 113)  | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.10 (SEQ ID NO: 114) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.11 (SEQ ID NO: 115) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.12 (SEQ ID NO: 116) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.13 (SEQ ID NO: 117) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.14 (SEQ ID NO: 118) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.15 (SEQ ID NO: 119) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYNLYTFGGGKVEIK | 112 |
| hVL1.16 (SEQ ID NO: 120) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYSLYTFGGGKVEIK | 112 |
| hVL1.17 (SEQ ID NO: 121) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.18 (SEQ ID NO: 122) | ESGVPDRFSGSGSGTDFTLTIDSLQTEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.19 (SEQ ID NO: 123) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.20 (SEQ ID NO: 124) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVALYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.21 (SEQ ID NO: 125) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.22 (SEQ ID NO: 126) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.23 (SEQ ID NO: 127) | ESGVPDRFSGSGSGTDFTLTIDSLQTEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.24 (SEQ ID NO: 128) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVALYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.25 (SEQ ID NO: 129) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVALYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.26 (SEQ ID NO: 130) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |
| hVL1.27 (SEQ ID NO: 131) | ESGVPDRFSGSGSGTDFTLTIDSLQAEDVAVYYCKQSYTLYTFGGGKVEIK | 112 |

FIG. 291

hVL1.28 (SEQ ID NO: 132) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.29 (SEQ ID NO: 133) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.30 (SEQ ID NO: 134) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.31 (SEQ ID NO: 135) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.32 (SEQ ID NO: 136) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.33 (SEQ ID NO: 137) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.34 (SEQ ID NO: 138) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.35 (SEQ ID NO: 139) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.36 (SEQ ID NO: 140) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.37 (SEQ ID NO: 141) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.38 (SEQ ID NO: 142) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.39 (SEQ ID NO: 143) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.40 (SEQ ID NO: 144) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.41 (SEQ ID NO: 145) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.42 (SEQ ID NO: 146) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.43 (SEQ ID NO: 147) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.44 (SEQ ID NO: 148) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.45 (SEQ ID NO: 149) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.46 (SEQ ID NO: 150) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.47 (SEQ ID NO: 151) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.48 (SEQ ID NO: 152) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.49 (SEQ ID NO: 153) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.50 (SEQ ID NO: 154) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.51 (SEQ ID NO: 155) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.52 (SEQ ID NO: 156) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
hVL1.53 (SEQ ID NO: 157) ESGVPDRFSGSGGTDFTLTIDSLQAEDVAIYYCKQSYTLYTFGGGKVEIK 112  
\*\*\*\*\* . \*\*\*\*\*; \*\* \*\*; \*\*\*\*\* . \*\*\*\*\*

FIG. 29J