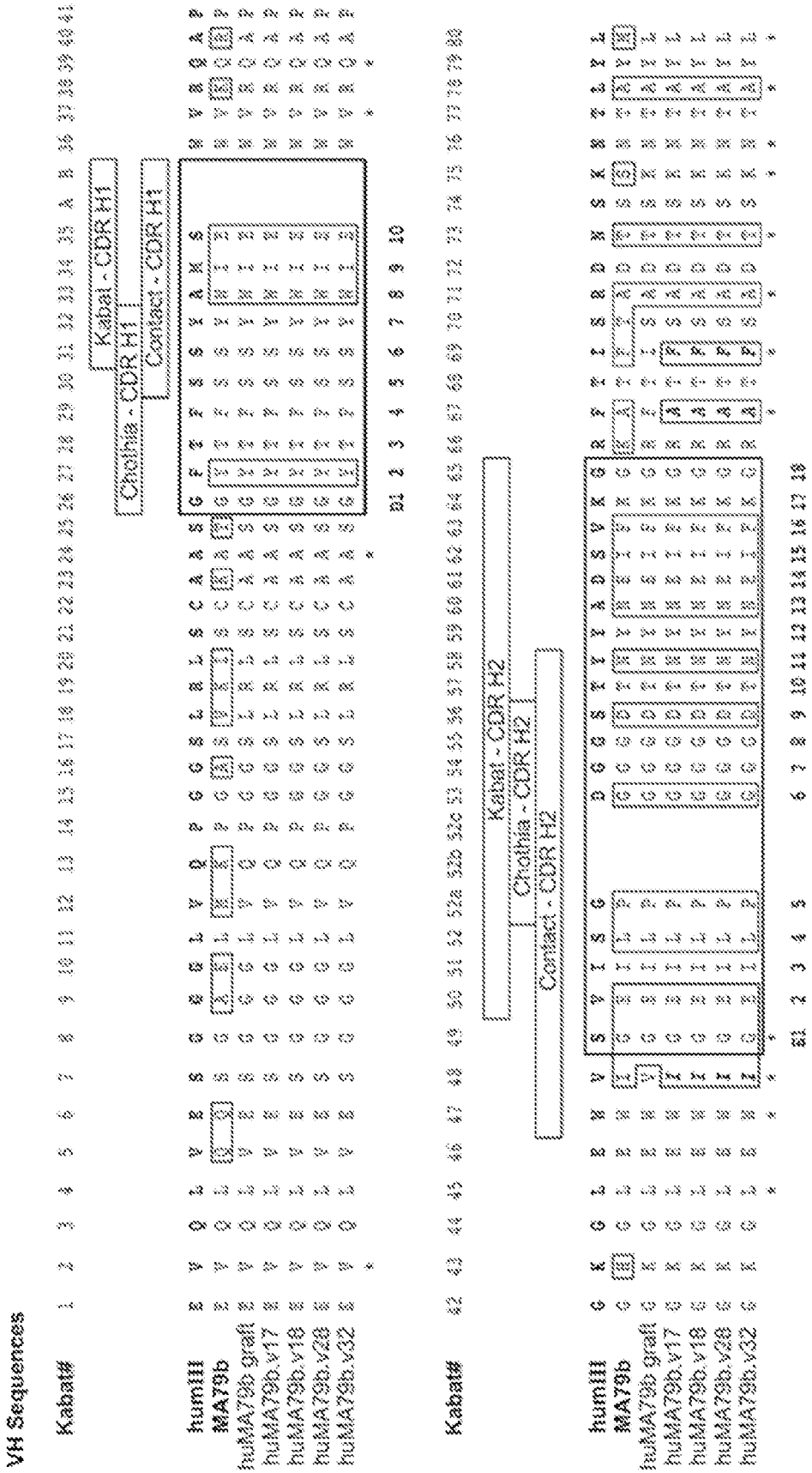

VH Sequences
Kabat - CDR H1
Chothia - CDR H1
Contact - CDR H1
Kabat - CDR H2
Chothia - CDR H2
Contact - CDR H2
humIII
MA79b
huMA79b graft
huMA79b.v17
huMA79b.v18
huMA79b.v28
huMA79b.v32

FIG. 1A

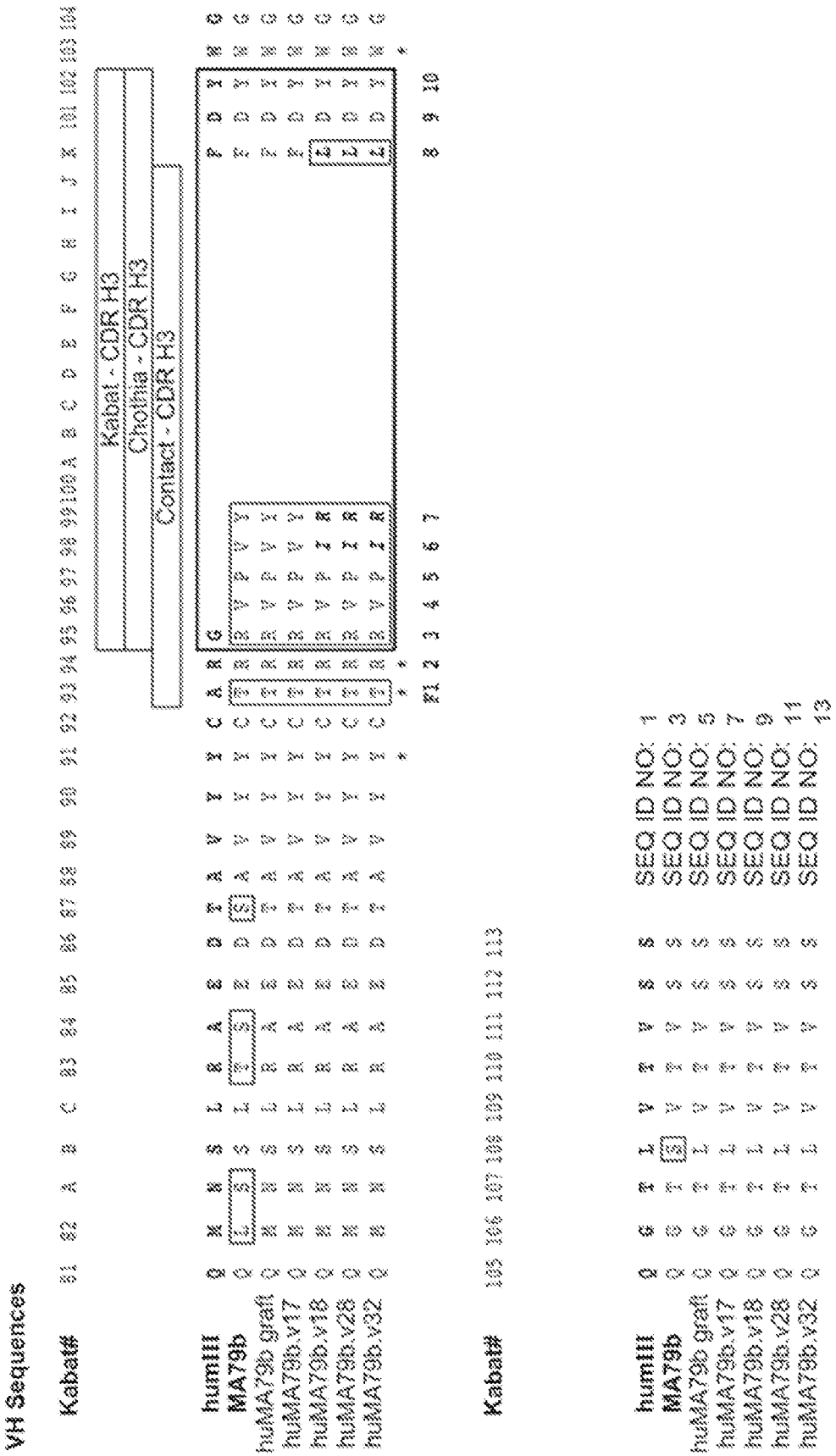

VH Sequences
Kabat - CDR H3
Chothia - CDR H3
Contact - CDR H3
humIII
MA79b
huMA79b graft
huMA79b.v17
huMA79b.v18
huMA79b.v28
huMA79b.v32
Kabat#
SEQ ID NO: 1
SEQ ID NO: 3
SEQ ID NO: 5
SEQ ID NO: 7
SEQ ID NO: 9
SEQ ID NO: 11
SEQ ID NO: 13

FIG. 1B

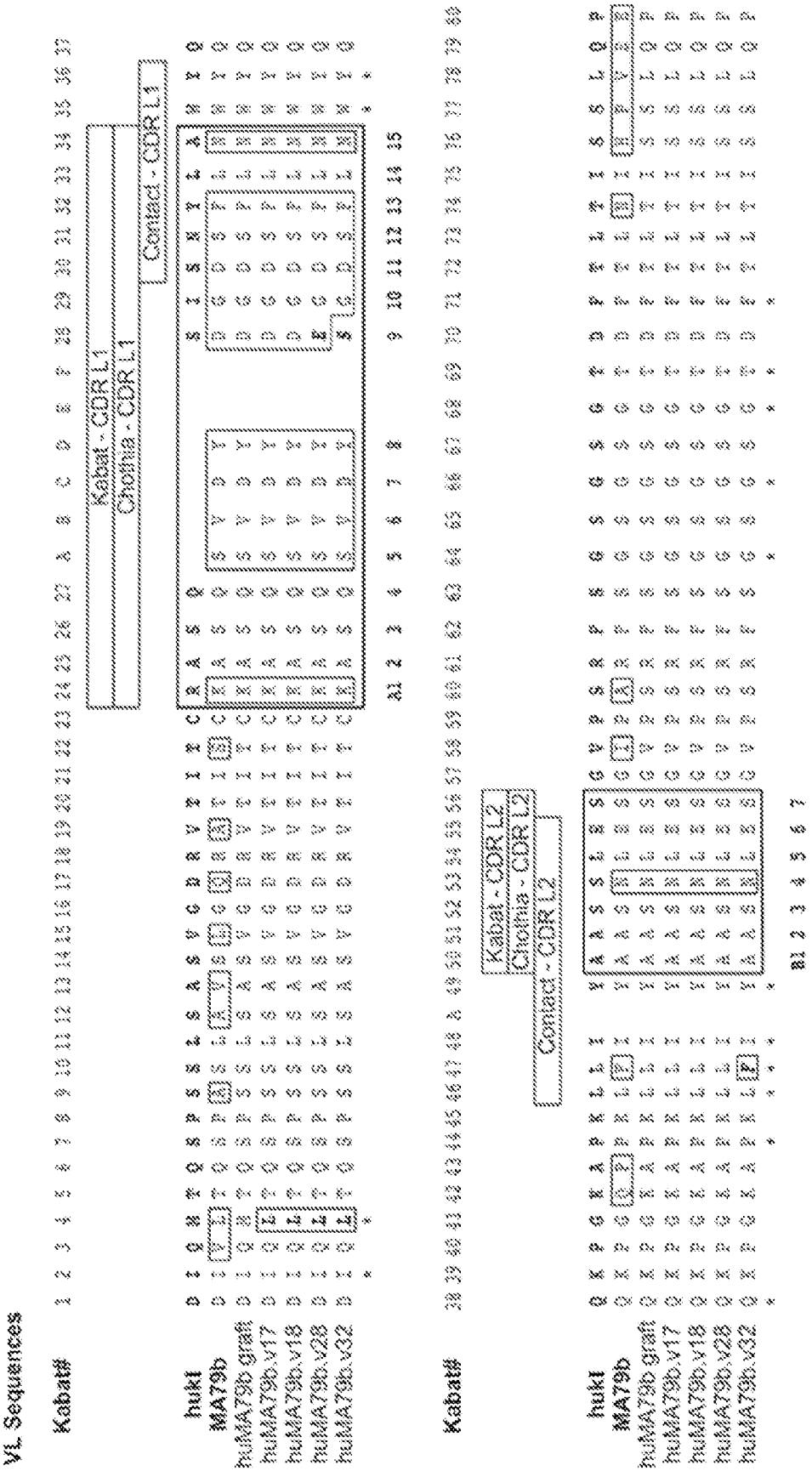

VL Sequences
Kabat - CDR L1
Chothia - CDR L1
Contact - CDR L1
Kabat - CDR L2
Chothia - CDR L2
Contact - CDR L2

FIG. 2A

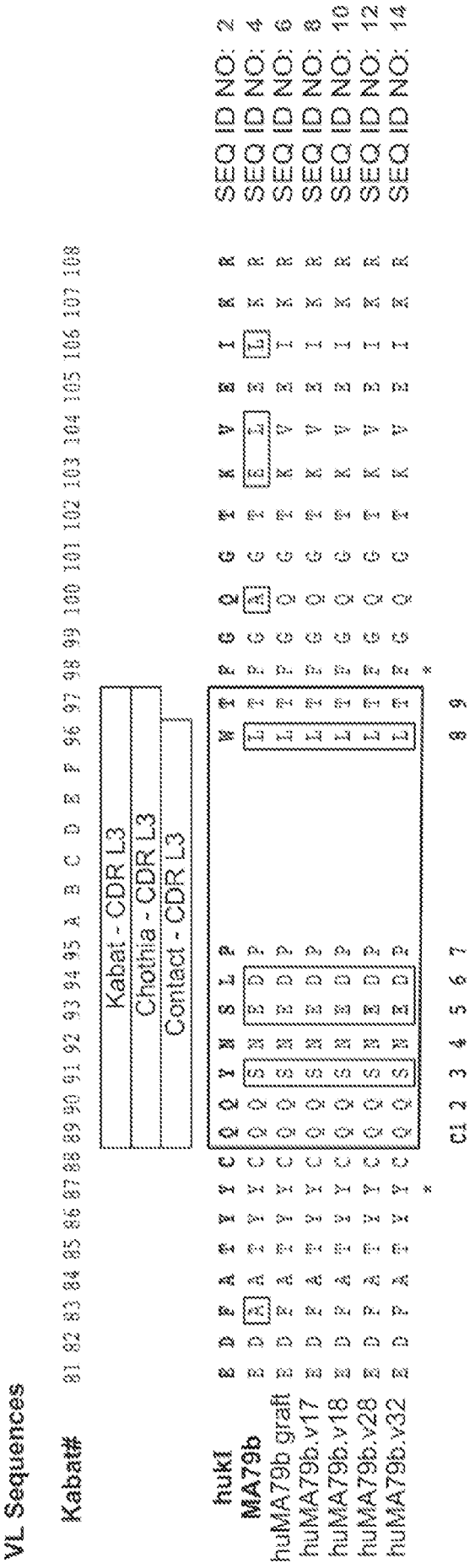

VL Sequences
Kabat - CDR L3
Chothia - CDR L3
Contact - CDR L3
SEQ ID NO: 2
SEQ ID NO: 4
SEQ ID NO: 6
SEQ ID NO: 8
SEQ ID NO: 10
SEQ ID NO: 12
SEQ ID NO: 14

FIG. 2B

**huMA79bv28 Light Chain**

DIQLTQSPSSLSASVGDRVTITCKASQSVDYEGDSFLNWYQQKPGKAPKLLIYAASNLESGVPSRFSG
SGSGTDFTLTISSLQPEDFATYYCQQSNEDPLTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASV
VCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQG
LSSPVTKSFNRGEC **SEQ ID NO: 37**

**huMA79bv28 Heavy Chain**

EVQLVESGGGLVQPGGSLRLSCAASGYTFSSYWIEWVRQAPGKGLEWIGEILPGGGDTNYNEIFKGRA
TFSADTSKNTAYLQMNSLRAEDTAVYYCTRRVPIRLDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTS
GGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH
KPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPE
VKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK
GQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYS
KLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG **SEQ ID NO: 38**

*FIG. 3*

**Thio-huMA79b.v28-HC-A118C (HC)**

EVQLVESGGGLVQPGGSLRLSCAASGYTFSSYWIEWVRQAPGKGLEWIGEILPGGGDTNYNEIFKGRAT
FSADTSKNTAYLQMNSLRAEDTAVYYCTRRVPIRLDYWGQGTLVTVSS**C**STKGPSVFPLAPSSKSTSGG
TAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPS
NTKVDKKVEPKSCDKTHT*CPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFN*
*WYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE*
*PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDK*
*SRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG* **SEQ ID NO: 39**

**Thio-huMA79b.v28-LC-V205C (LC)**

DIQLTQSPSSLSASVGDRVTITCKASQSVDYEGDSFLNWYQQKPGKAPKLLIYAASNLESGVPSRFSGSG
SGTDFTLTISSLQPEDFATYYCQQSNEDPLTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLL
NNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSP**C**T
KSFNRGEC **SEQ ID NO: 54**

**Thio-huMA79b.v28-HC-S400C (HC)**

EVQLVESGGGLVQPGGSLRLSCAASGYTFSSYWIEWVRQAPGKGLEWIGEILPGGGDTNYNEIFKGRATF
SADTSKNTAYLQMNSLRAEDTAVYYCTRRVPIRLDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTA
ALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTK
VDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVD
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYT
LPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLD**C**DGSFFLYSKLTVDKSRWQQG
NVFSCSVMHEALHNHYTQKSLSLSPGK **SEQ ID NO: 55**

***FIG. 4***

Thio huMA79bv28 HC A118C-MC-val-cit-PAB-PBD ("huMA79bv28-PBD")

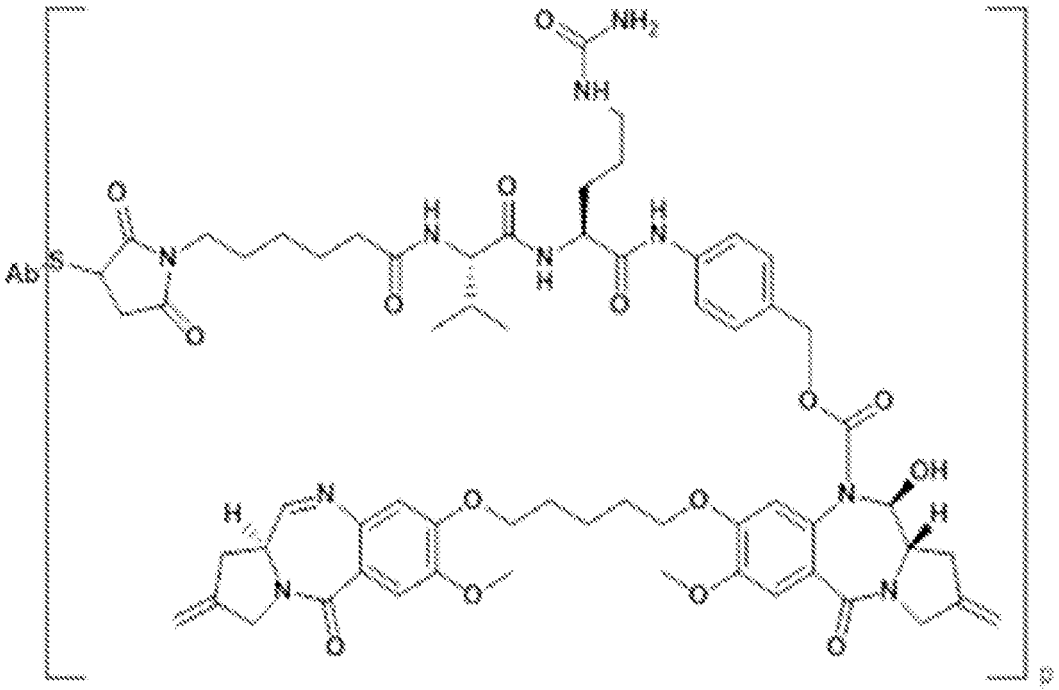


FIG. 5

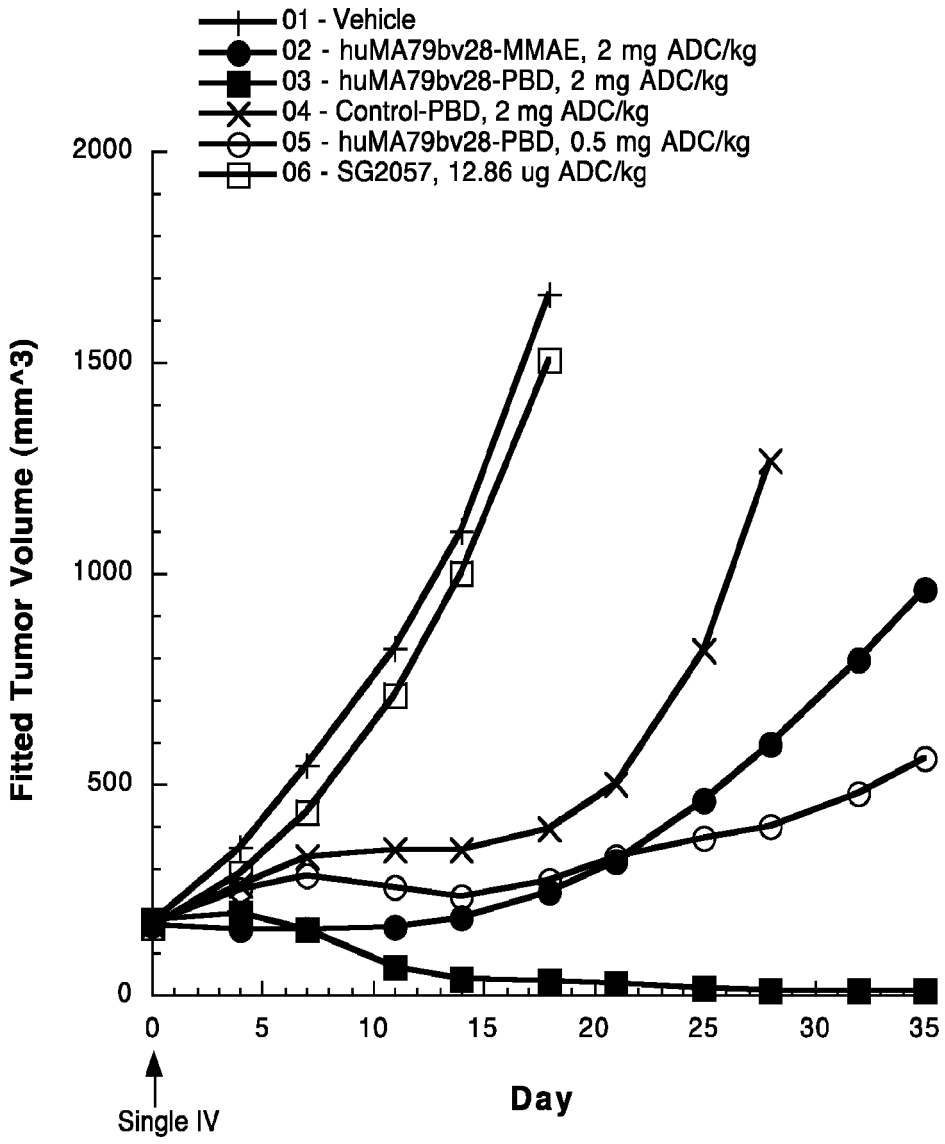

01 - Vehicle
02 - huMA79bv28-MMAE, 2 mg ADC/kg
03 - huMA79bv28-PBD, 2 mg ADC/kg
04 - Control-PBD, 2 mg ADC/kg
05 - huMA79bv28-PBD, 0.5 mg ADC/kg
06 - SG2057, 12.86 ug ADC/kg
Fitted Tumor Volume (mm^3)
2000
1500
1000
500
0
0
5
10
15
20
25
30
35
Day
Single IV

*FIG. 6*

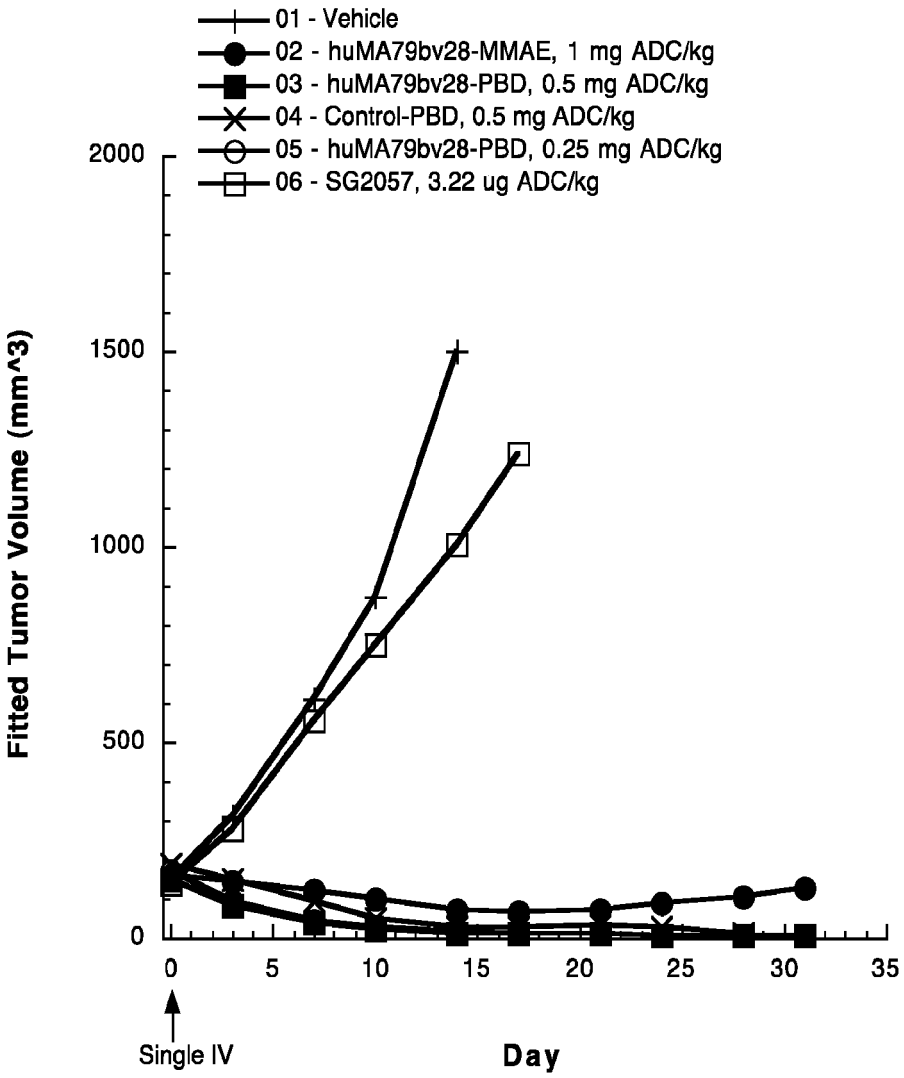

01 - Vehicle
02 - huMA79bv28-MMAE, 1 mg ADC/kg
03 - huMA79bv28-PBD, 0.5 mg ADC/kg
04 - Control-PBD, 0.5 mg ADC/kg
05 - huMA79bv28-PBD, 0.25 mg ADC/kg
06 - SG2057, 3.22 ug ADC/kg
Fitted Tumor Volume (mm^3)
2000
1500
1000
500
0
0
5
10
15
20
25
30
35
Single IV
Day

*FIG. 7*

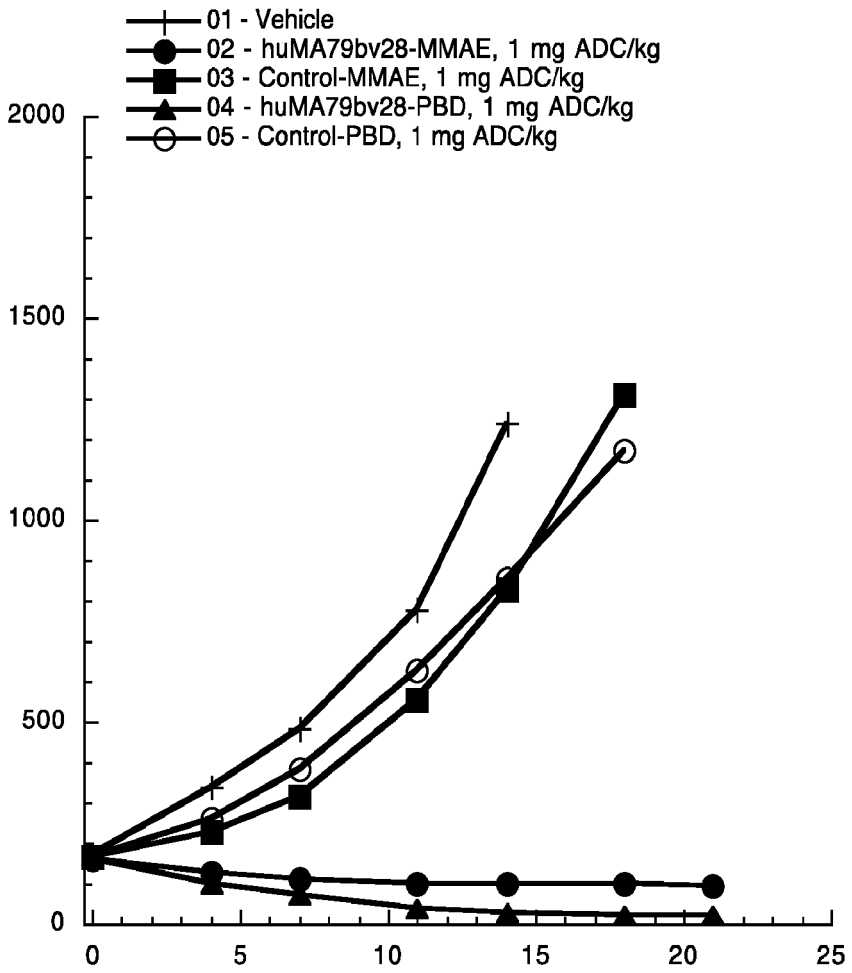

01 - Vehicle
02 - huMA79bv28-MMAE, 1 mg ADC/kg
03 - Control-MMAE, 1 mg ADC/kg
04 - huMA79bv28-PBD, 1 mg ADC/kg
05 - Control-PBD, 1 mg ADC/kg
2000
1500
1000
500
0
0
5
10
15
20
25

*FIG. 8*

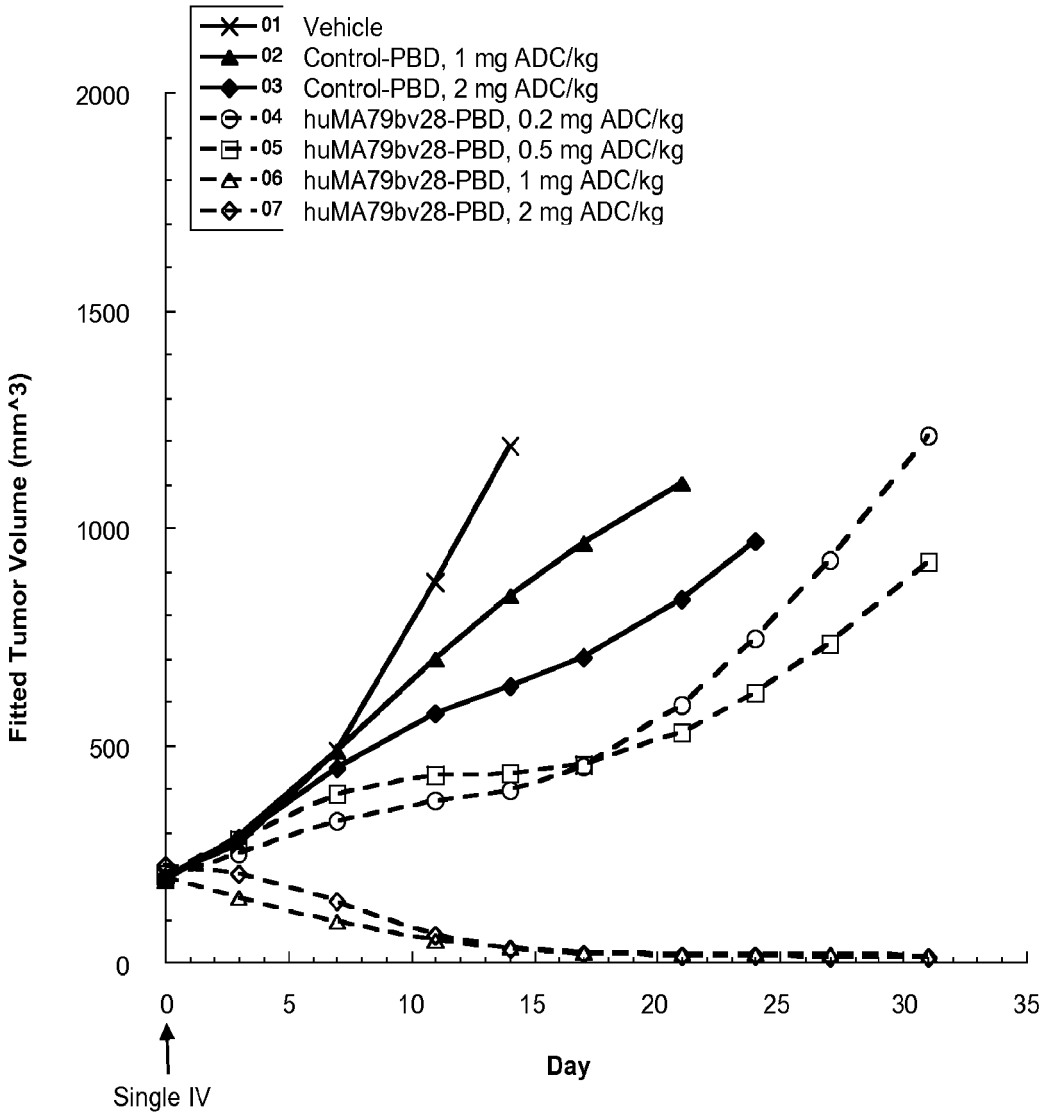

01 Vehicle
02 Control-PBD, 1 mg ADC/kg
03 Control-PBD, 2 mg ADC/kg
04 huMA79bv28-PBD, 0.2 mg ADC/kg
05 huMA79bv28-PBD, 0.5 mg ADC/kg
06 huMA79bv28-PBD, 1 mg ADC/kg
07 huMA79bv28-PBD, 2 mg ADC/kg
Fitted Tumor Volume (mm^3)
2000
1500
1000
500
0
0
5
10
15
20
25
30
35
Day
Single IV

FIG. 9

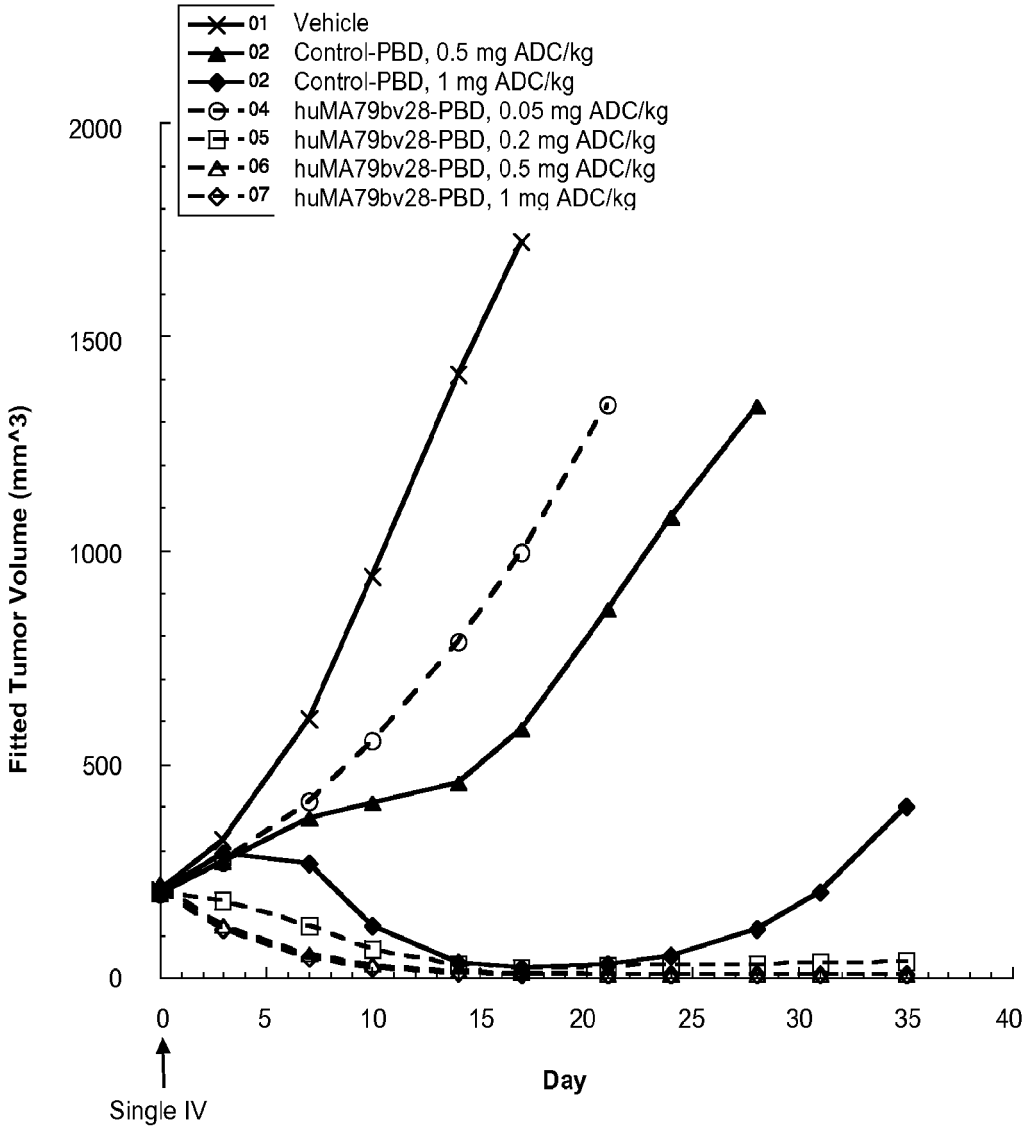

01 Vehicle
02 Control-PBD, 0.5 mg ADC/kg
02 Control-PBD, 1 mg ADC/kg
04 huMA79bv28-PBD, 0.05 mg ADC/kg
05 huMA79bv28-PBD, 0.2 mg ADC/kg
06 huMA79bv28-PBD, 0.5 mg ADC/kg
07 huMA79bv28-PBD, 1 mg ADC/kg
Fitted Tumor Volume (mm^3)
2000
1500
1000
500
0
0
5
10
15
20
25
30
35
40
Day
Single IV

FIG. 10

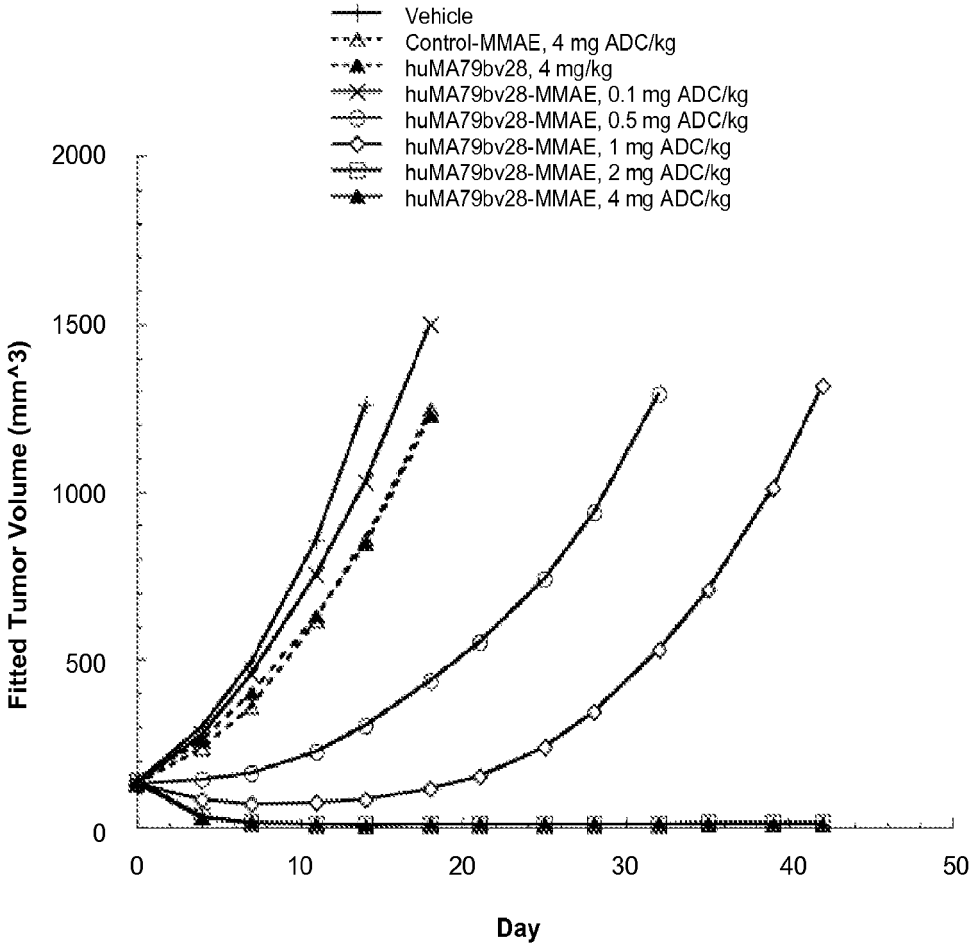

Vehicle
Control-MMAE, 4 mg ADC/kg
huMA79bv28, 4 mg/kg
huMA79bv28-MMAE, 0.1 mg ADC/kg
huMA79bv28-MMAE, 0.5 mg ADC/kg
huMA79bv28-MMAE, 1 mg ADC/kg
huMA79bv28-MMAE, 2 mg ADC/kg
huMA79bv28-MMAE, 4 mg ADC/kg
Fitted Tumor Volume (mm^3)
2000
1500
1000
500
0
0
10
20
30
40
50
Day

*FIG. 11*