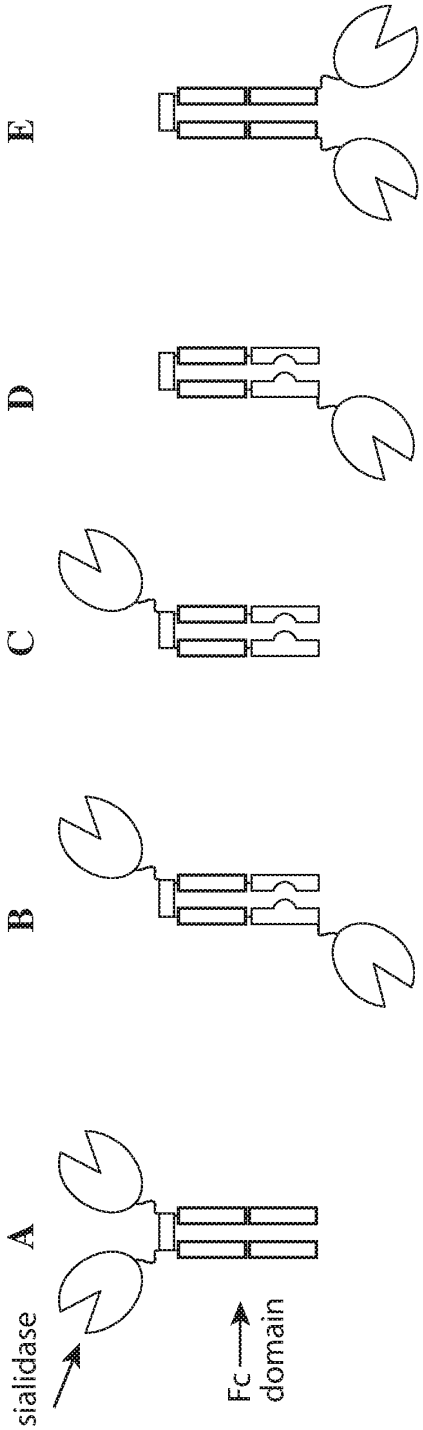


FIGURE 1

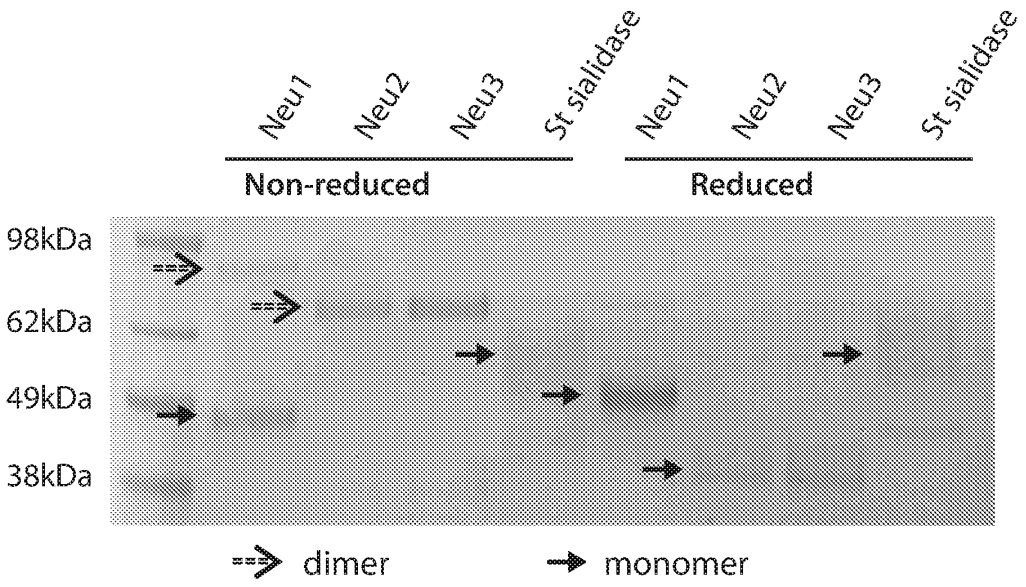

Neu1
Neu2
Neu3
St sialidase
Neu1
Neu2
Neu3
St sialidase
Non-reduced
Reduced
98kDa
62kDa
49kDa
38kDa
dimer
monomer

FIGURE 2

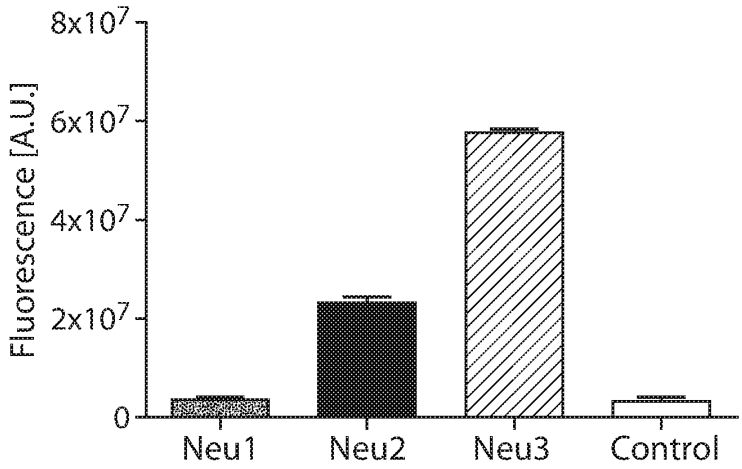

8x10^7
6x10^7
4x10^7
2x10^7
0
Fluorescence [A.U.]
Neu1
Neu2
Neu3
Control

FIGURE 3

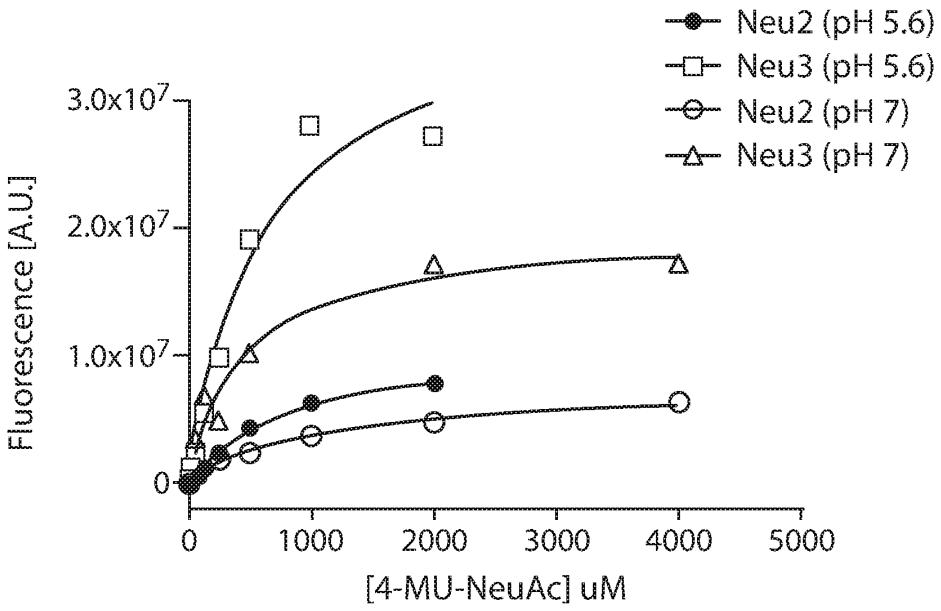

Neu2 (pH 5.6)
Neu3 (pH 5.6)
Neu2 (pH 7)
Neu3 (pH 7)
Fluorescence [A.U.]
3.0x10^7
2.0x10^7
1.0x10^7
0
0
1000
2000
3000
4000
5000
[4-MU-NeuAc] uM

FIGURE 4

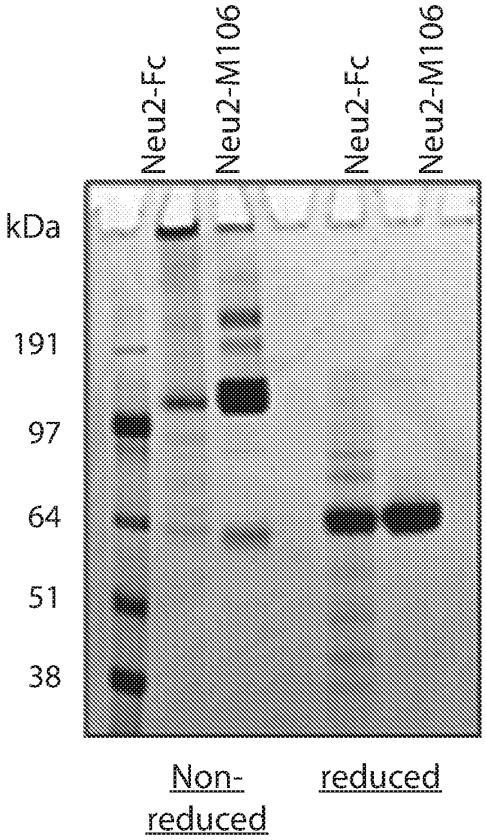


FIGURE 5A

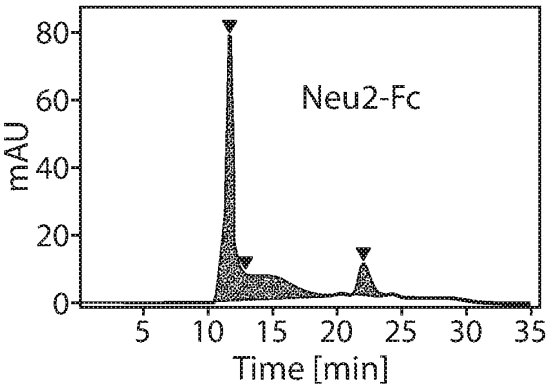


FIGURE 5B

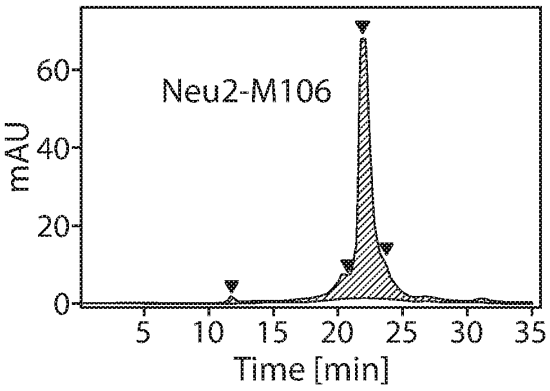


FIGURE 5C

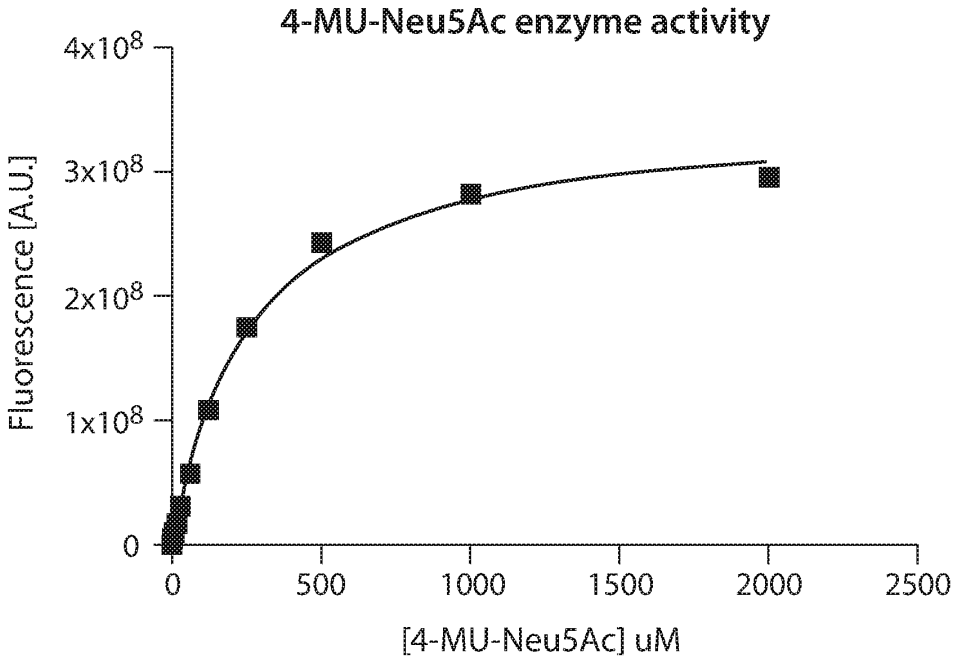

4-MU-Neu5Ac enzyme activity
Fluorescence [A.U.]
4x10^8
3x10^8
2x10^8
1x10^8
0
0
500
1000
1500
2000
2500
[4-MU-Neu5Ac] uM

FIGURE 6

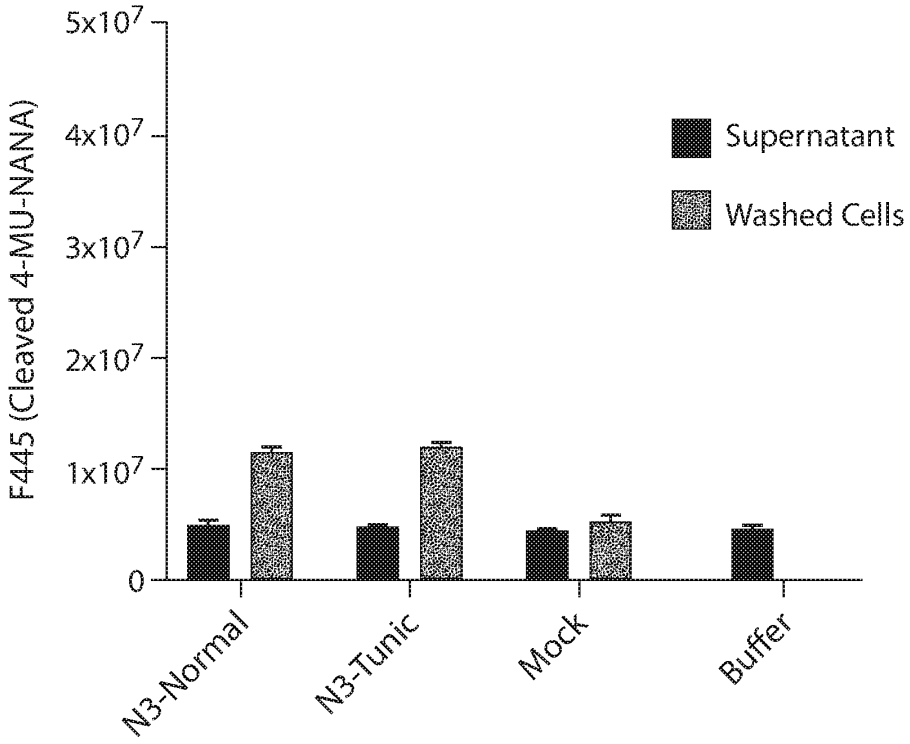

5x10^7
4x10^7
3x10^7
2x10^7
1x10^7
0
F445 (Cleaved 4-MU-NANA)
Supernatant
Washed Cells
N3-Normal
N3-Tunic
Mock
Buffer

FIGURE 7

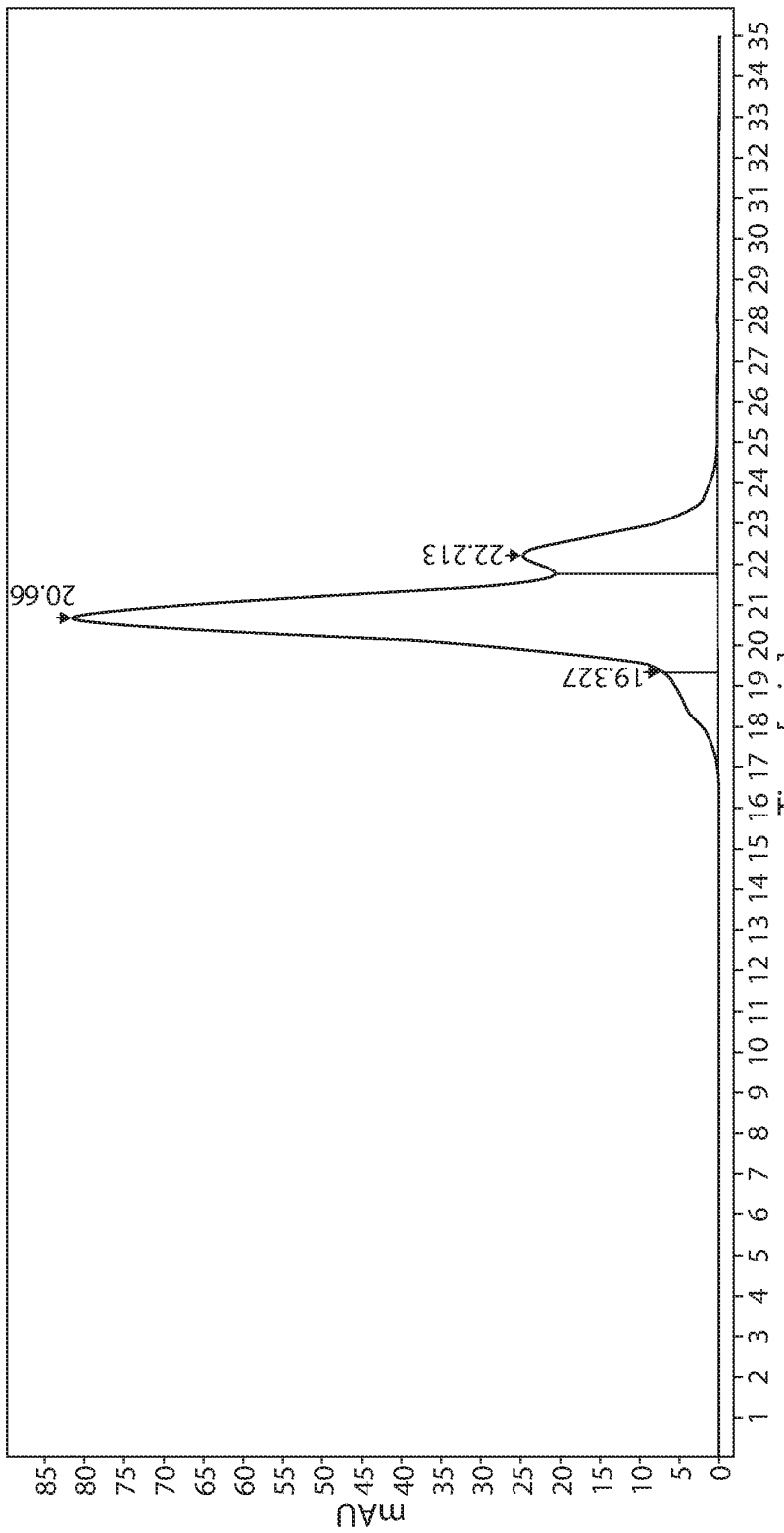

mAU
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
Time [min]
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
19.327
20.66
22.213

FIGURE 8

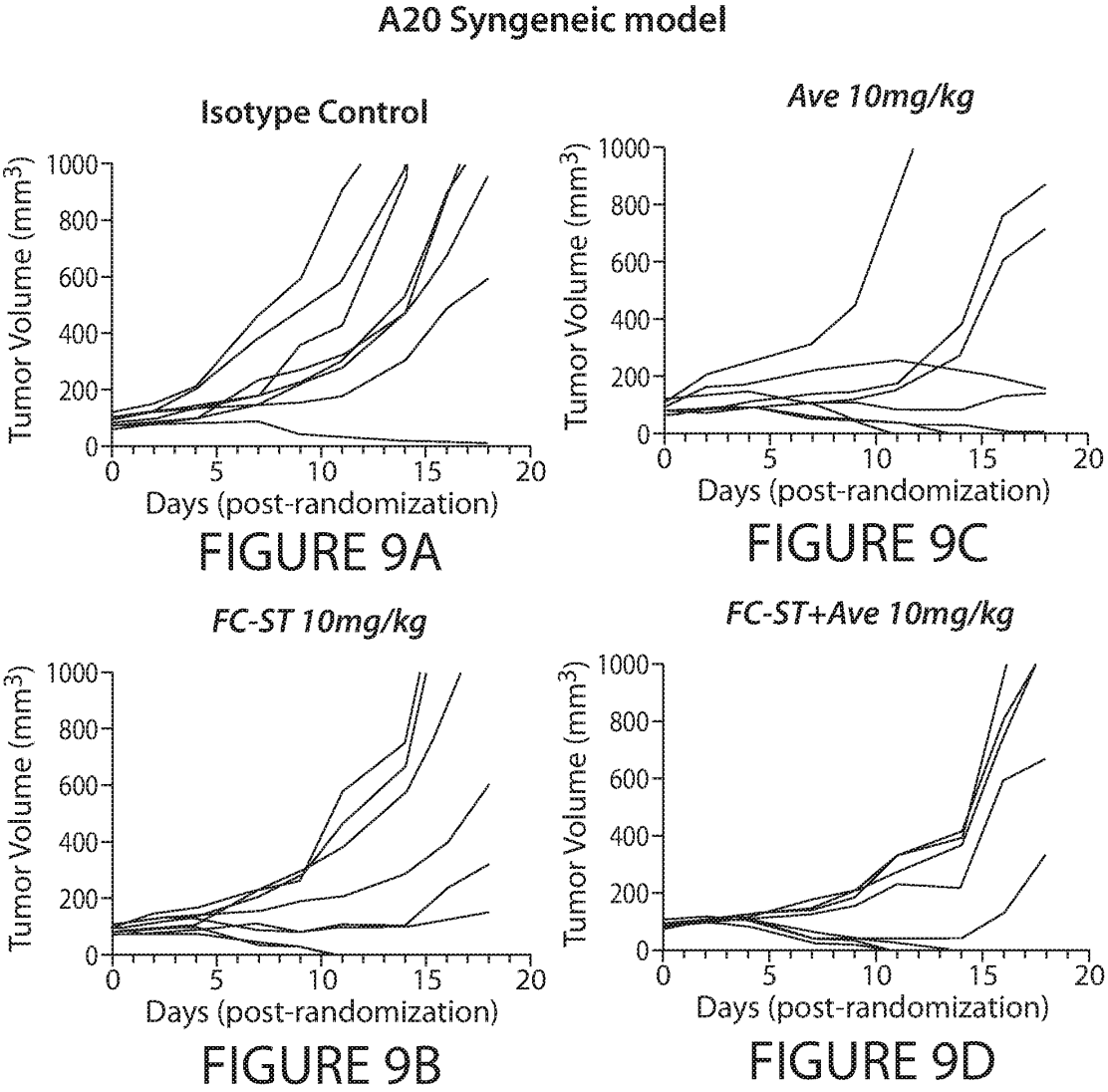


FIGURE 9A

FIGURE 9C

FIGURE 9B

FIGURE 9D

EMT6-Her2 model

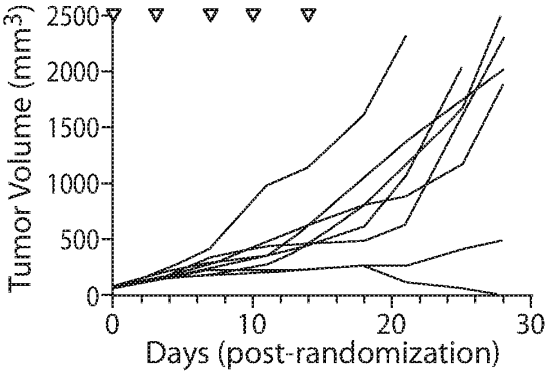


FIGURE 10A

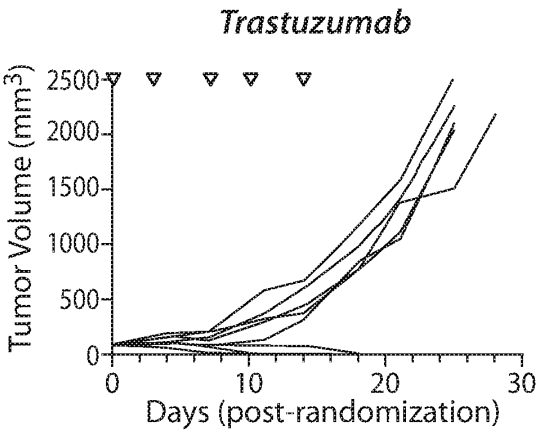


FIGURE 10C

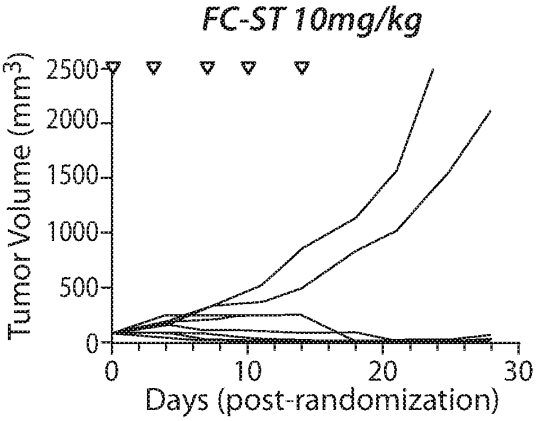


FIGURE 10B

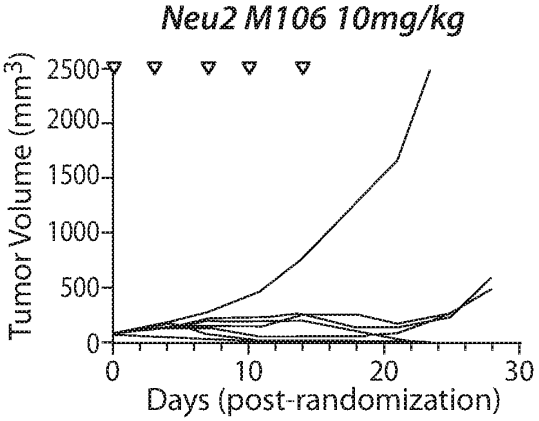


FIGURE 10D

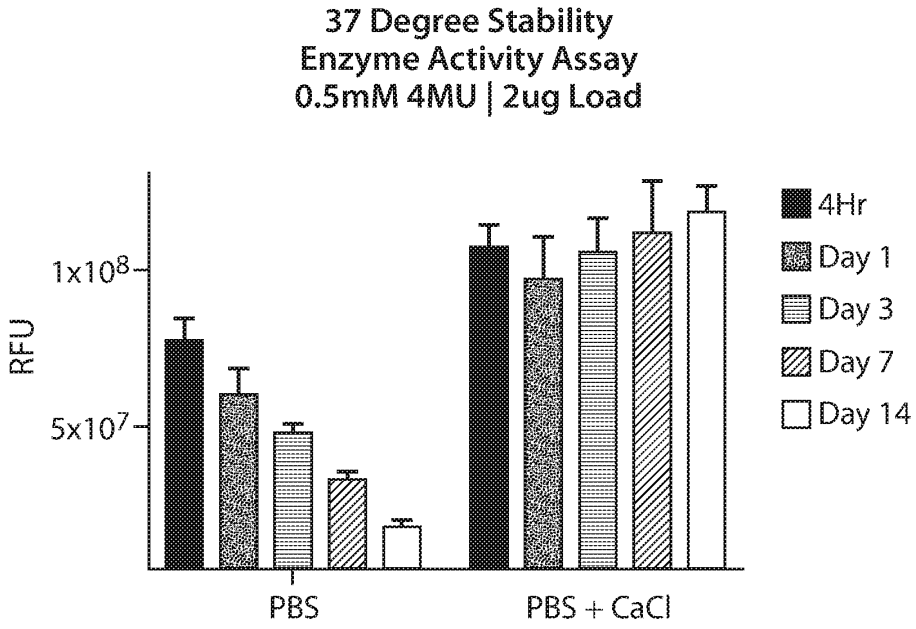

37 Degree Stability
Enzyme Activity Assay
0.5mM 4MU | 2ug Load
RFU
1x10^8
5x10^7
PBS
PBS + CaCl
4Hr
Day 1
Day 3
Day 7
Day 14

FIGURE 11

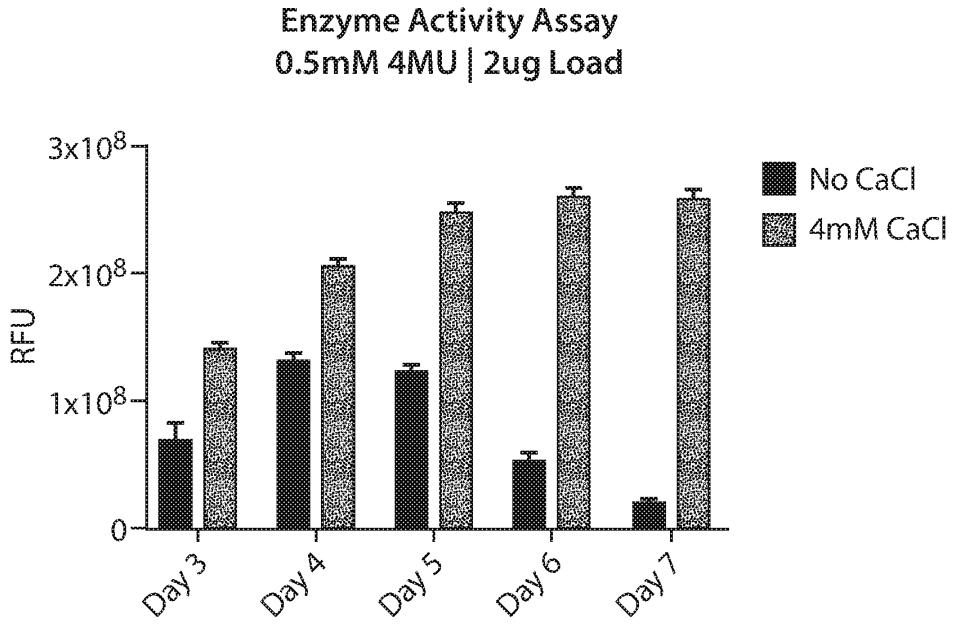


FIGURE 12A

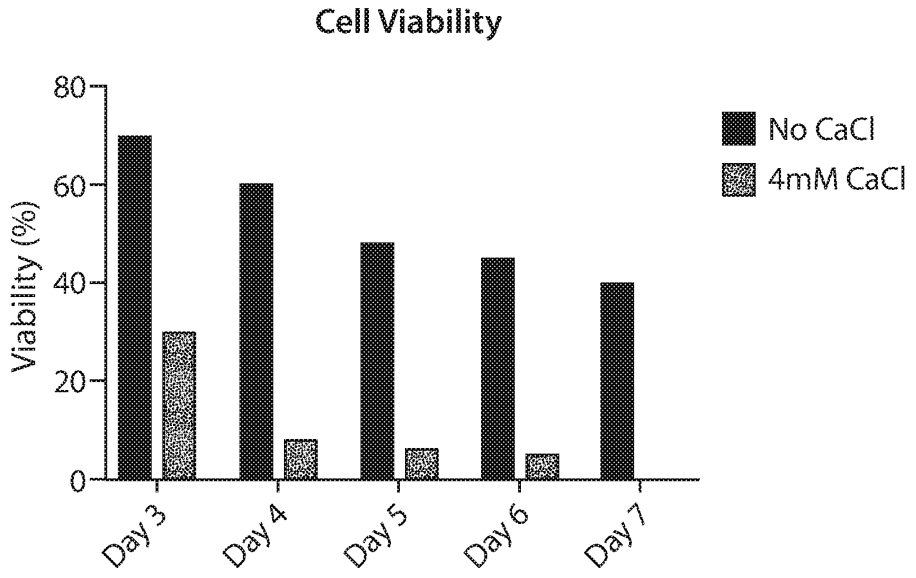


FIGURE 12B

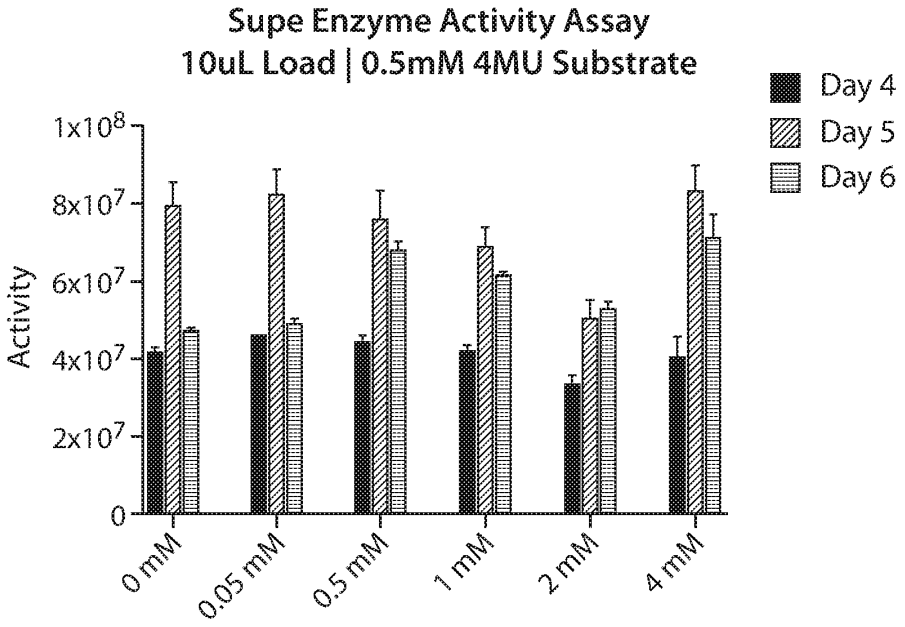


FIGURE 13A

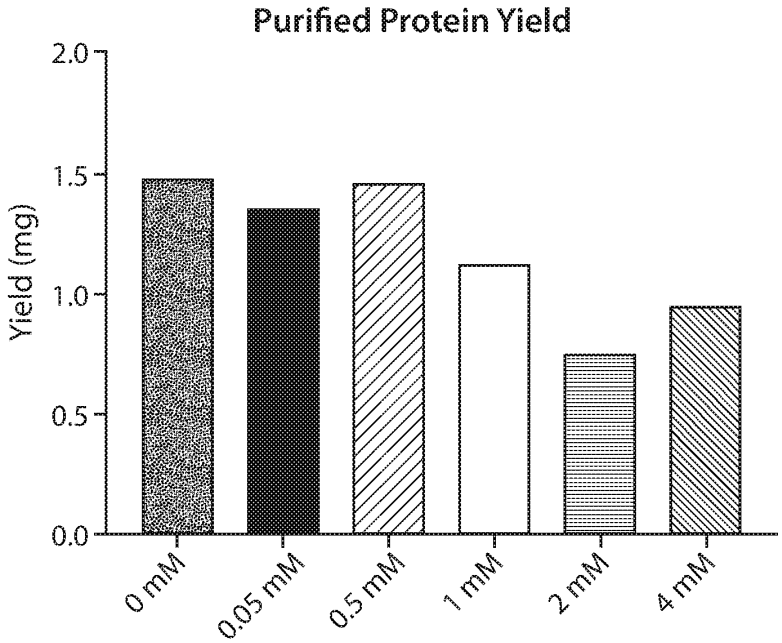


FIGURE 13B

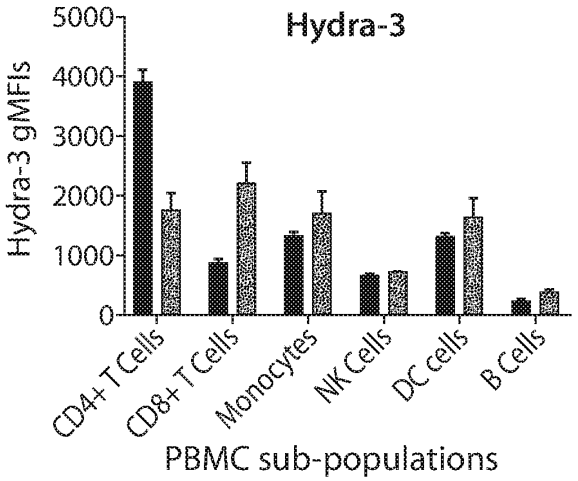


FIGURE 14A

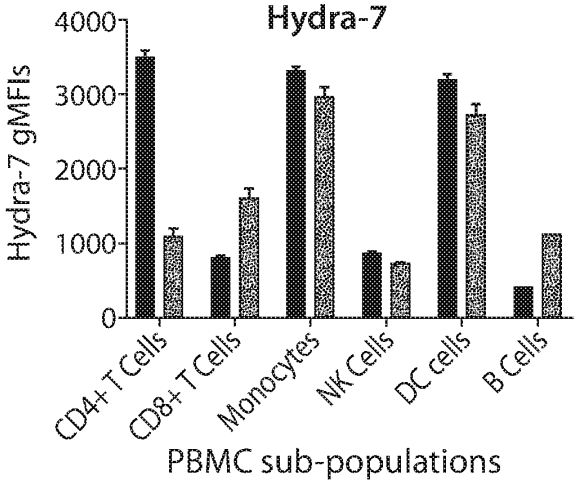


FIGURE 14B

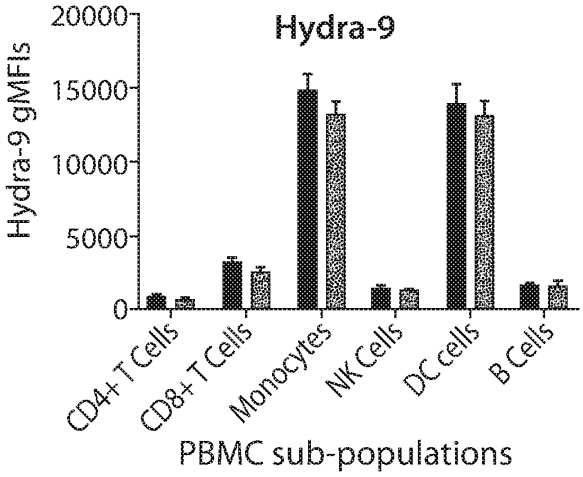


FIGURE 14C

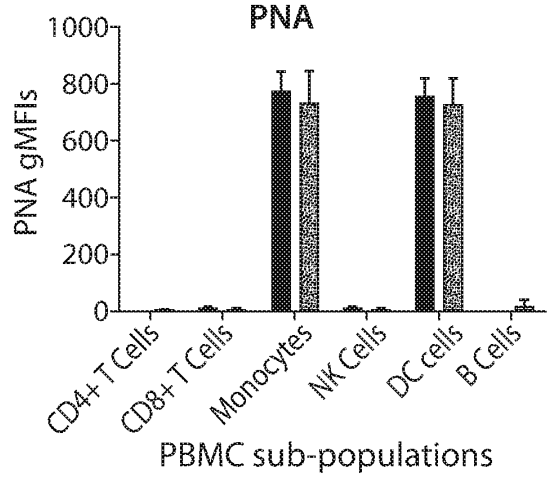


FIGURE 15A

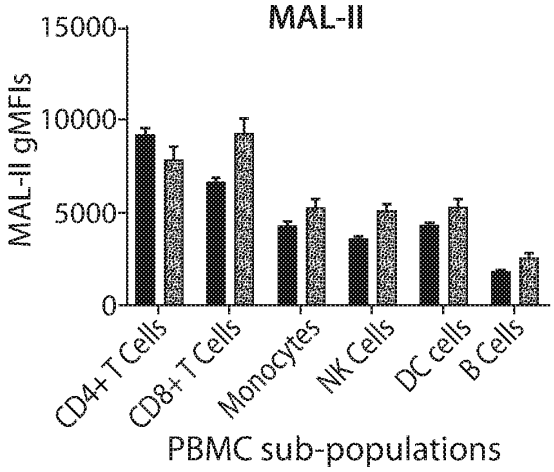


FIGURE 15B

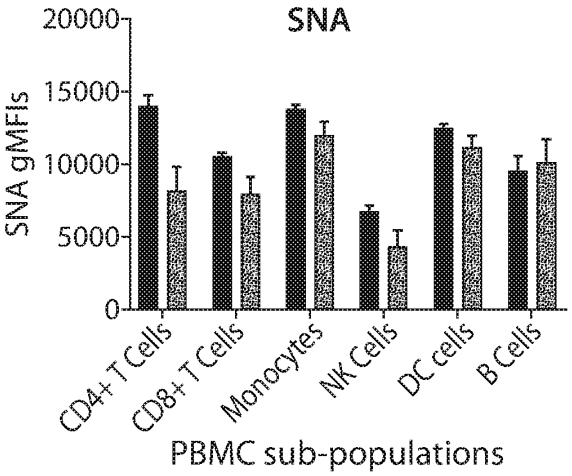


FIGURE 15C

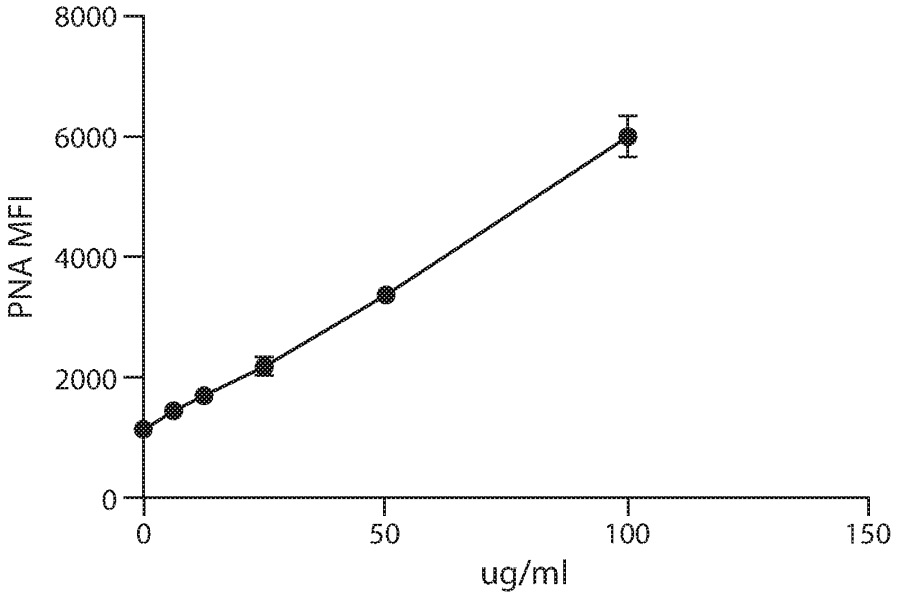


FIGURE 16A

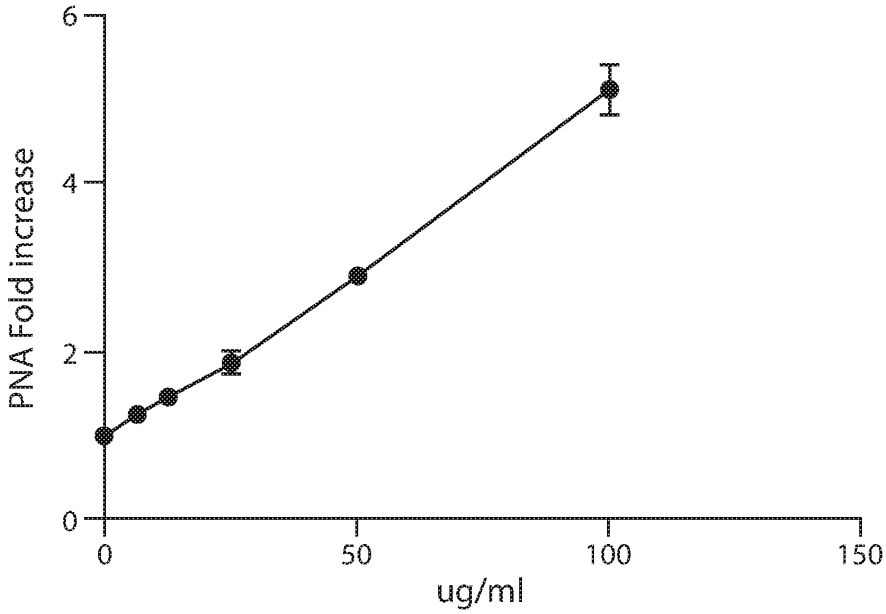


FIGURE 16B

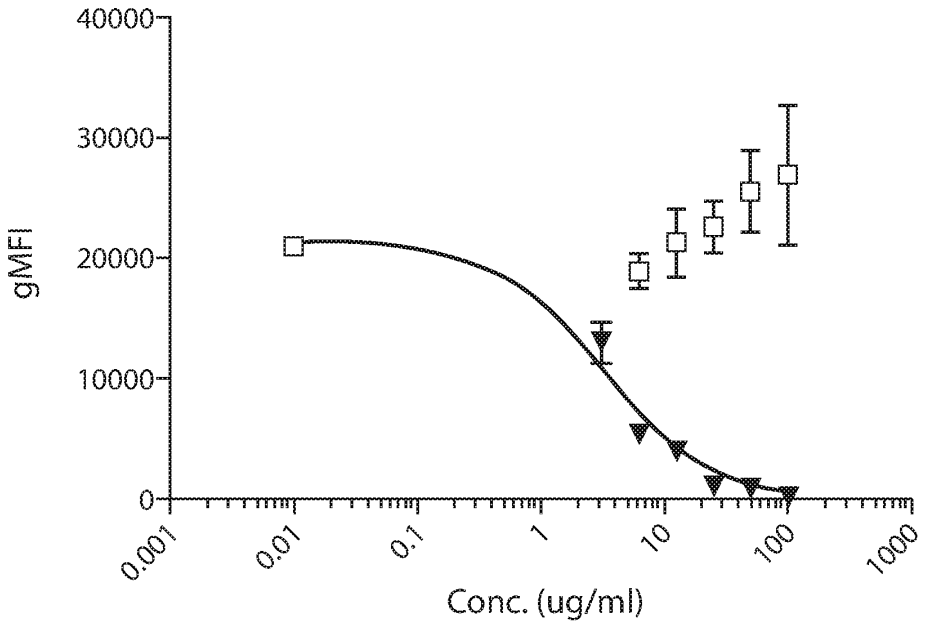


FIGURE 17A

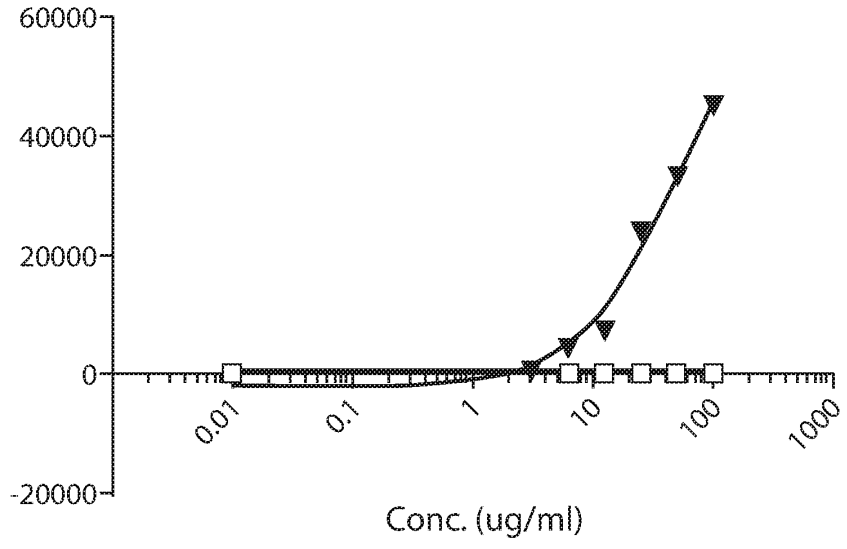


FIGURE 17B

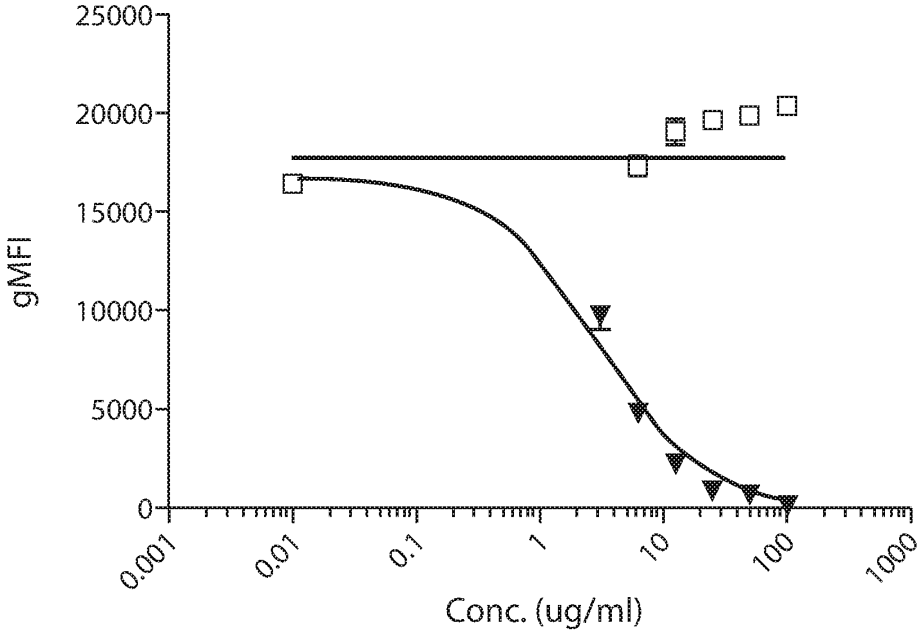


FIGURE 18A

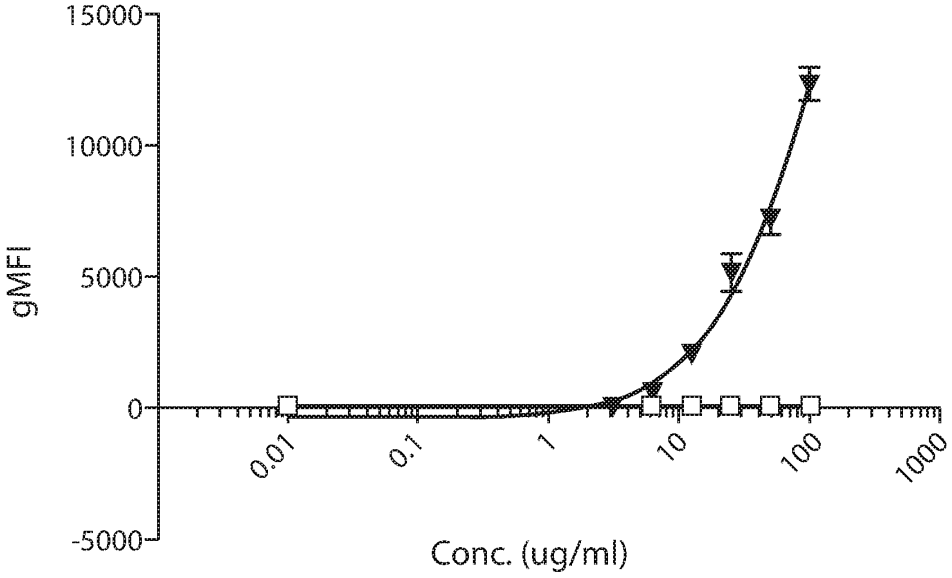


FIGURE 18B

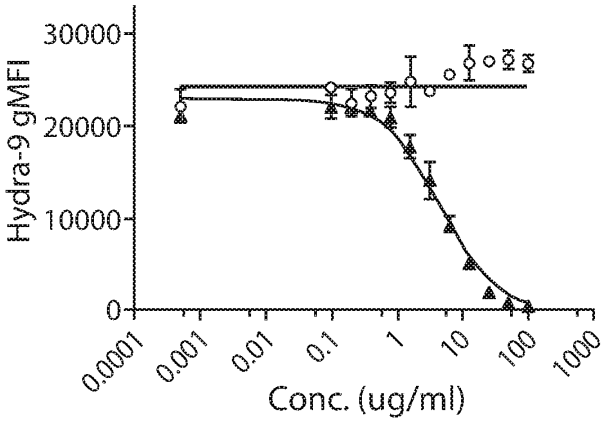


FIGURE 19A

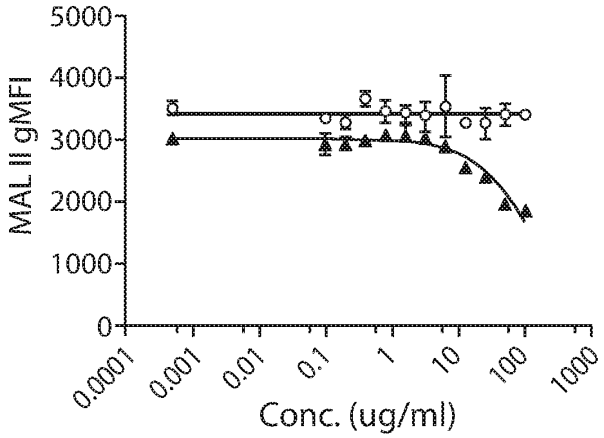


FIGURE 19B

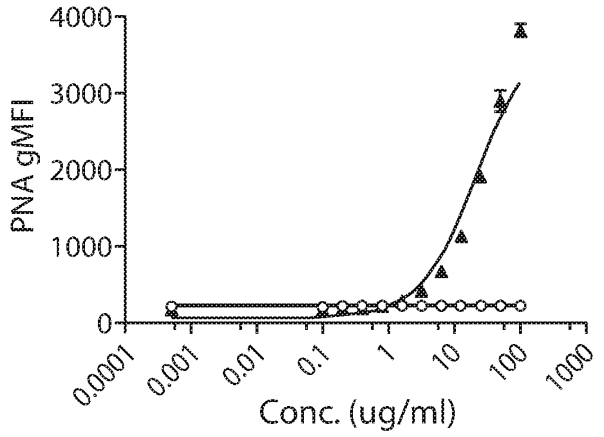


FIGURE 19C

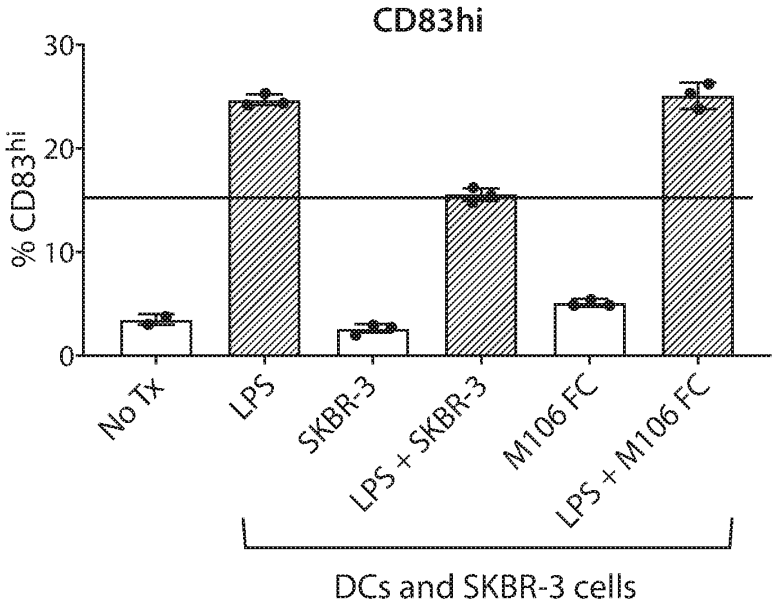


FIGURE 20A

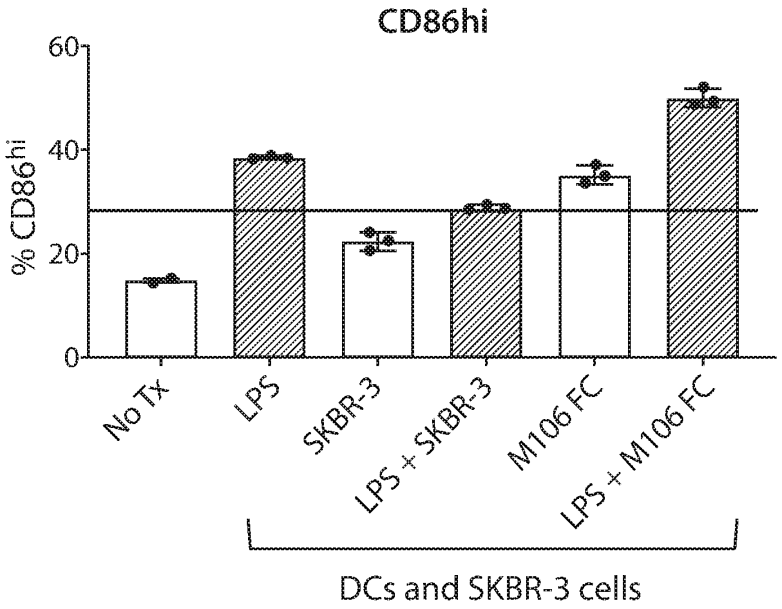


FIGURE 20B

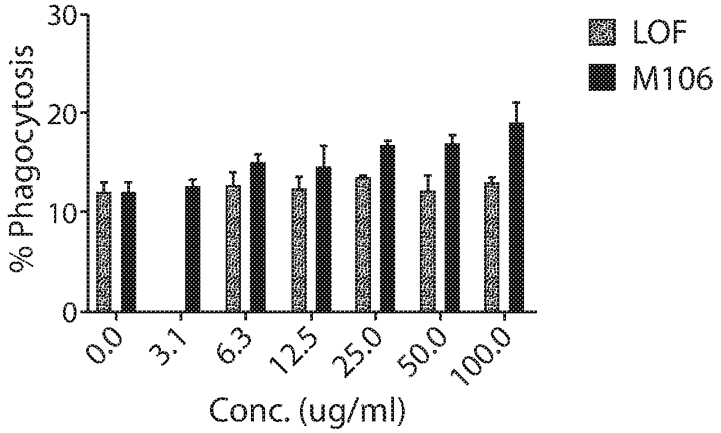


FIGURE 21A

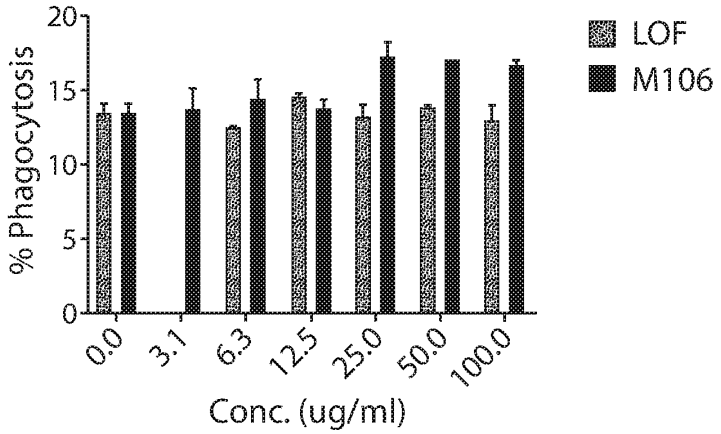


FIGURE 21B

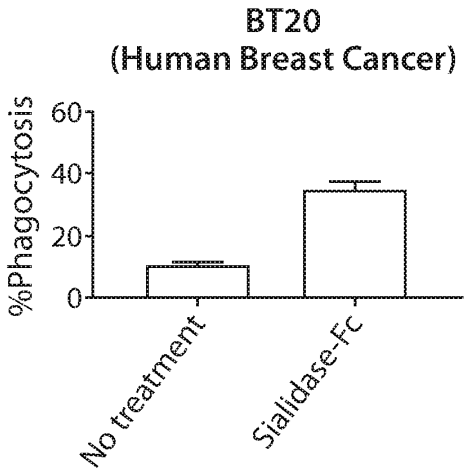


FIGURE 21C

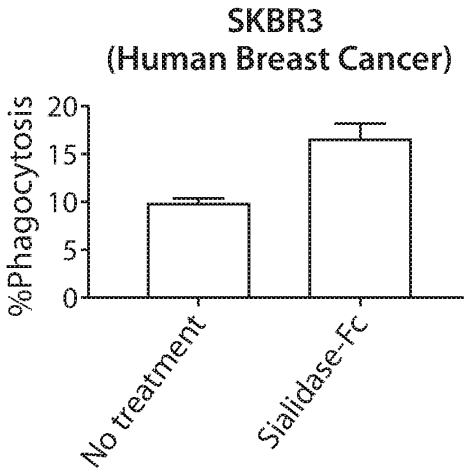


FIGURE 21D

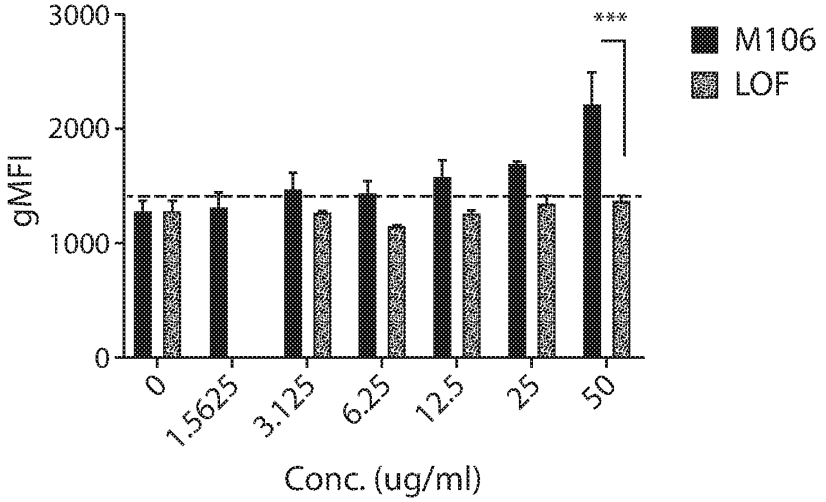


FIGURE 22A

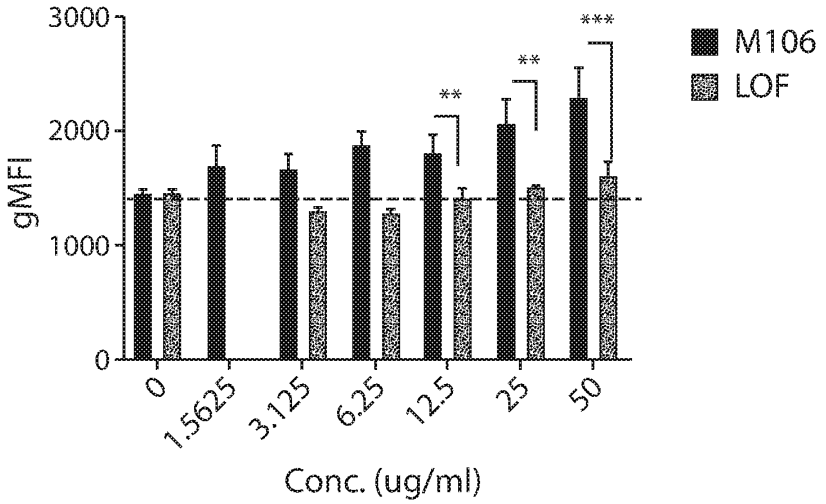


FIGURE 22B

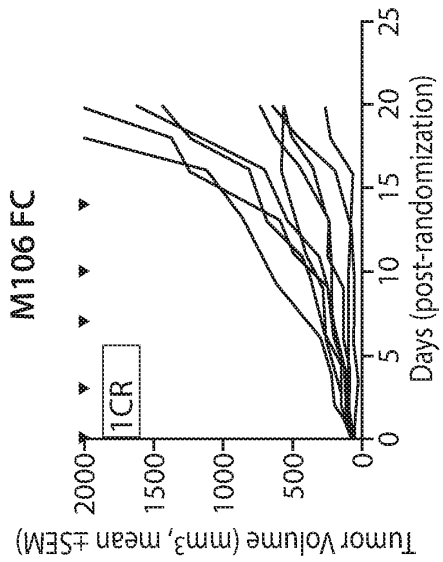


FIGURE 23A

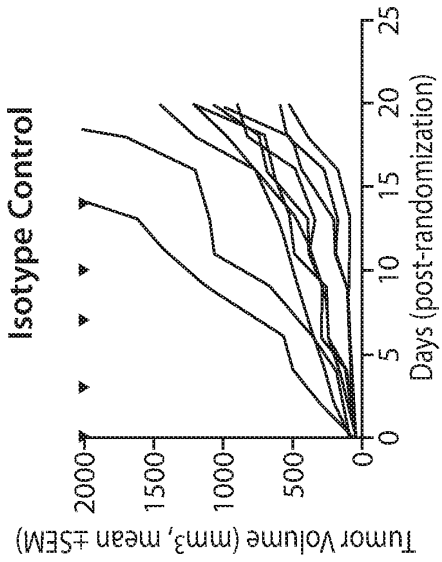


FIGURE 23B

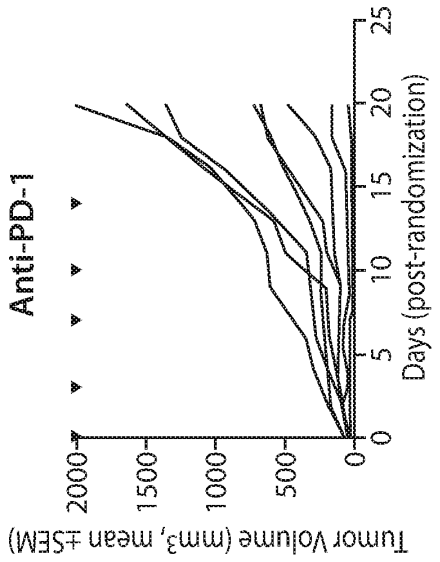


FIGURE 23C

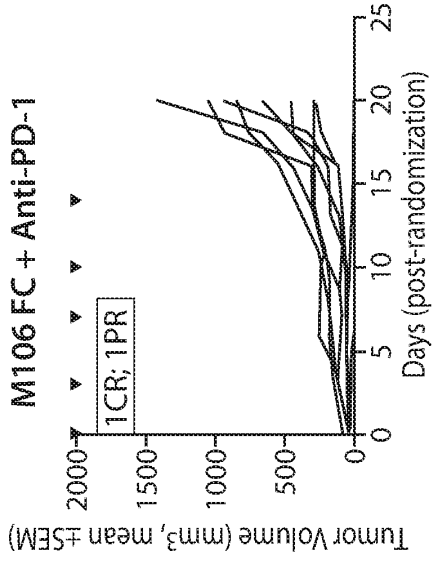


FIGURE 23D

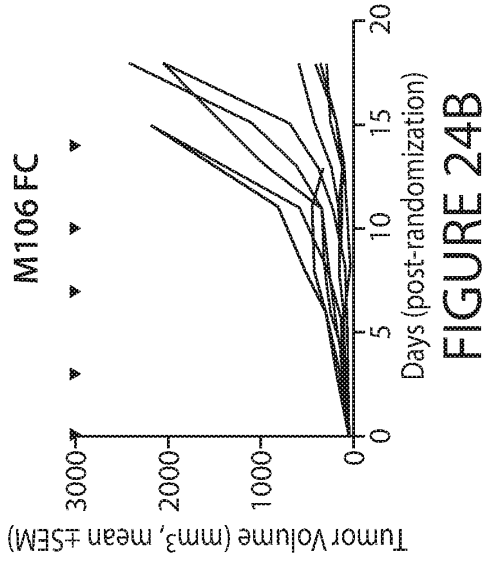


FIGURE 24A

FIGURE 24B

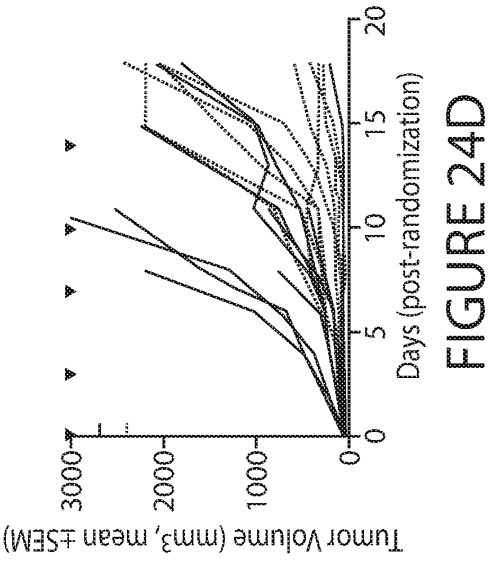


FIGURE 24C

FIGURE 24D

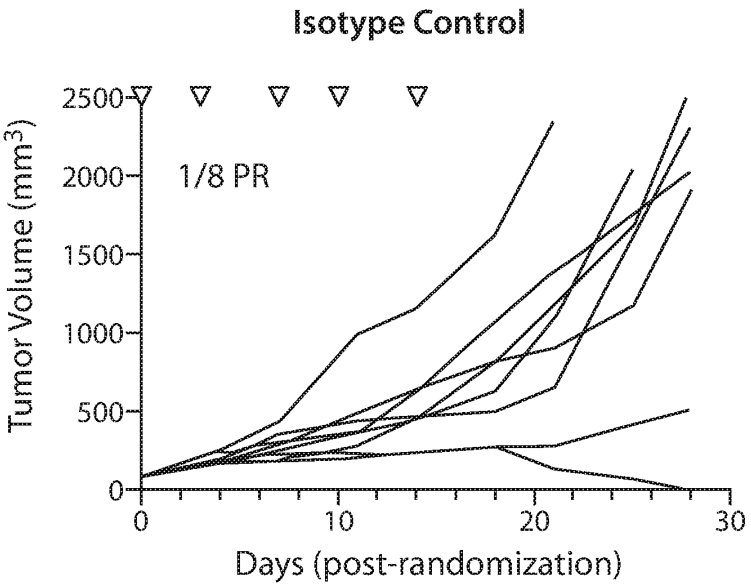


FIGURE 25A

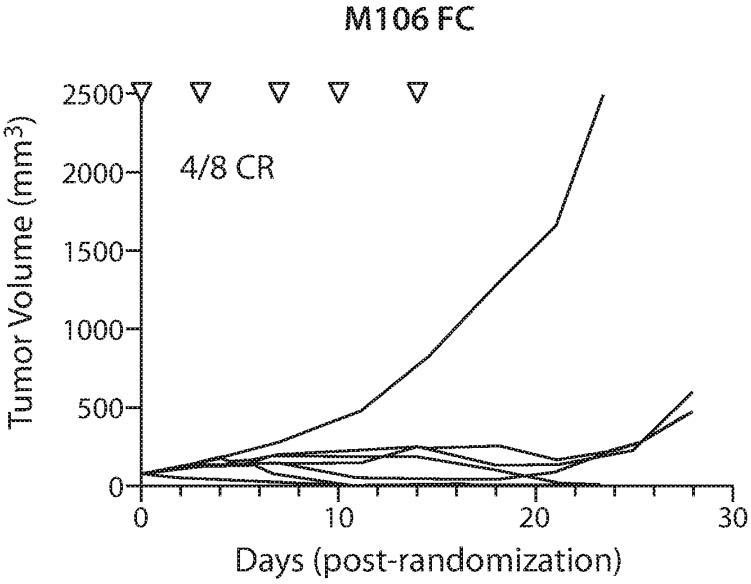


FIGURE 25B

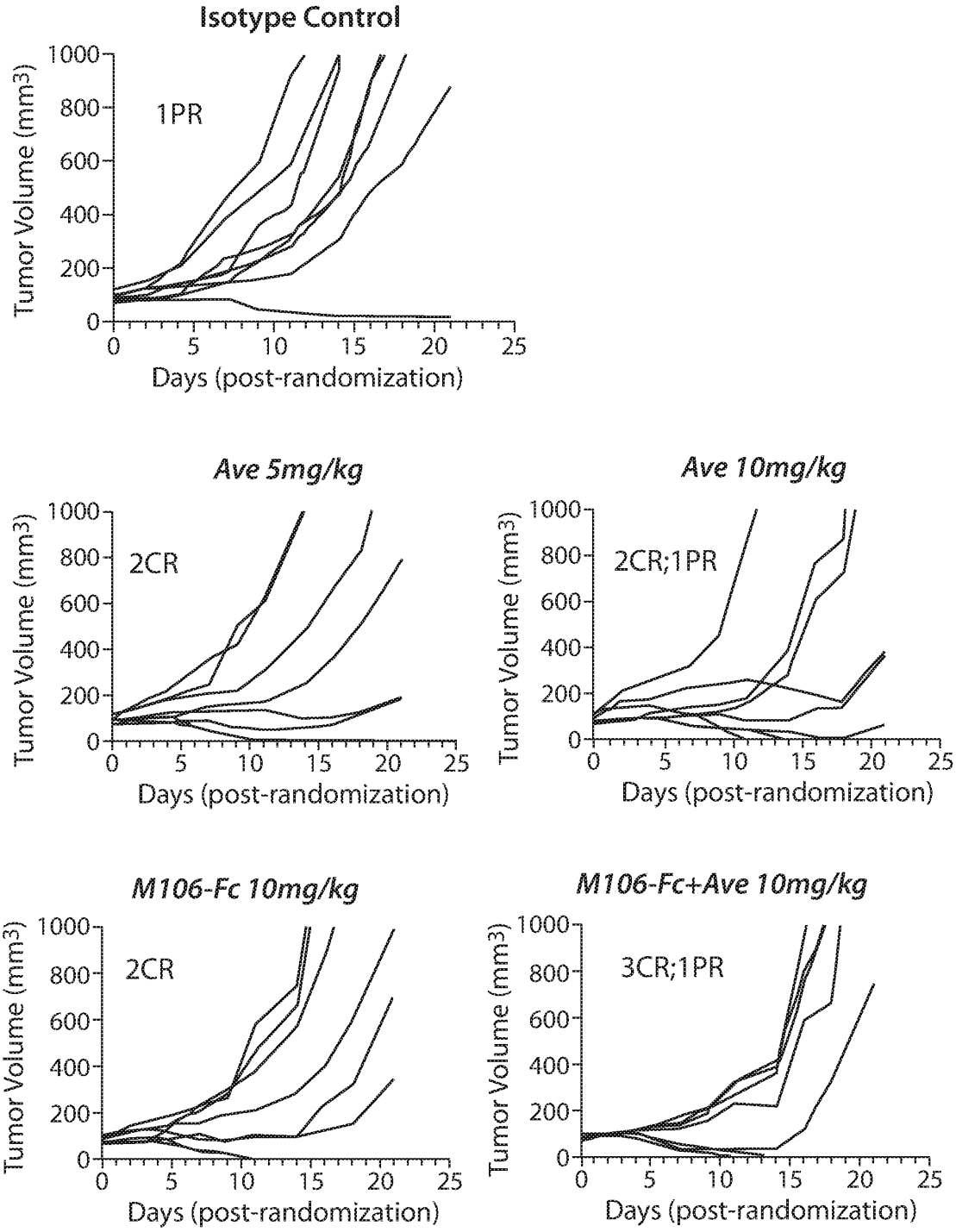

Isotype Control
1PR
Tumor Volume (mm3)
Days (post-randomization)
Ave 5mg/kg
2CR
Ave 10mg/kg
2CR;1PR
M106-Fc 10mg/kg
2CR
M106-Fc+Ave 10mg/kg
3CR;1PR

FIGURE 26

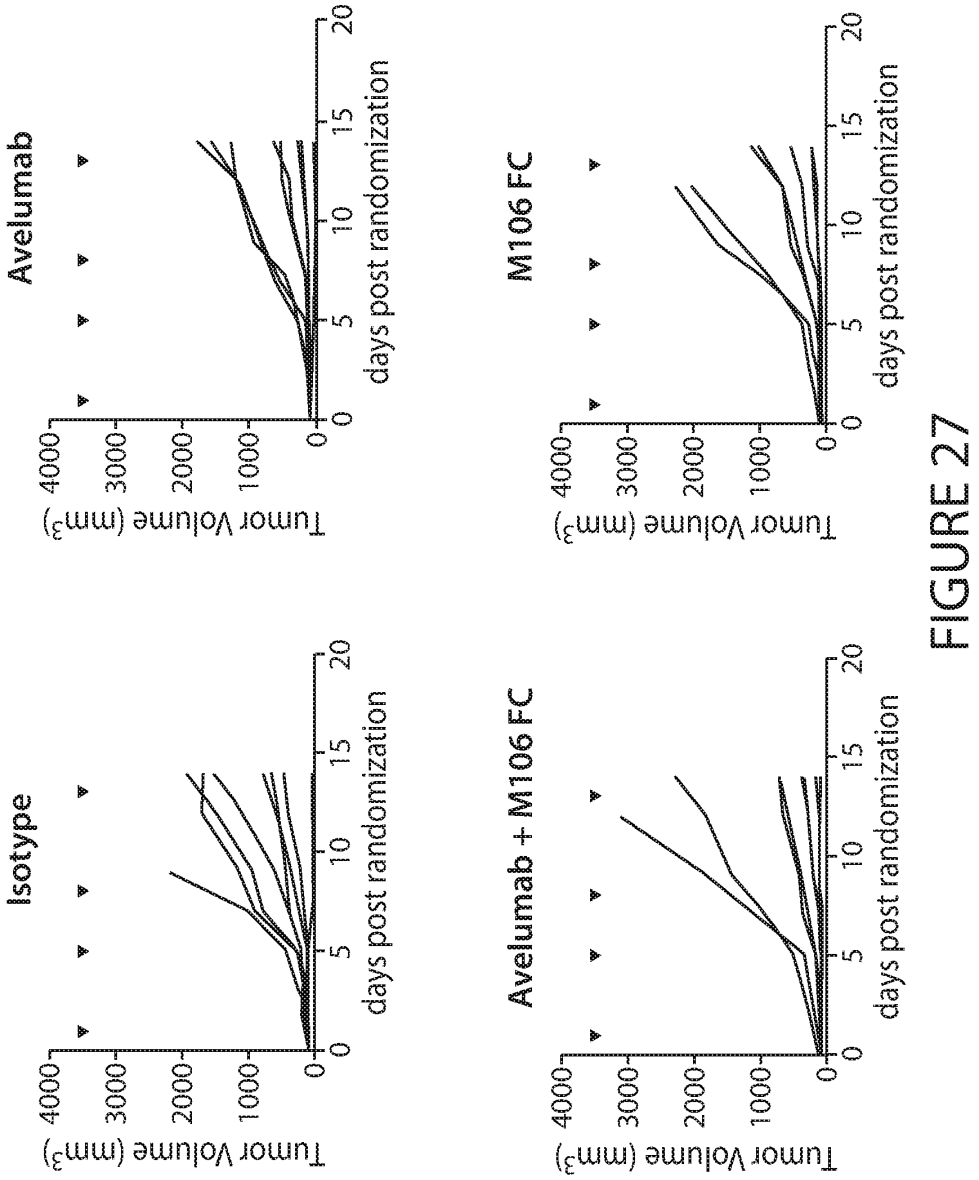

Isotype
Avelumab
Avelumab + M106 FC
M106 FC
Tumor Volume (mm3)
days post randomization
0
1000
2000
3000
4000
0
5
10
15
20

FIGURE 27

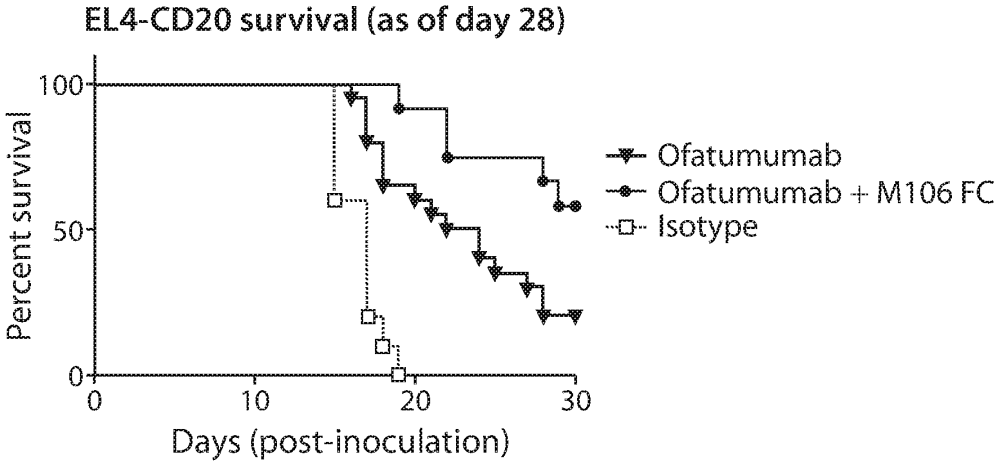


FIGURE 28A

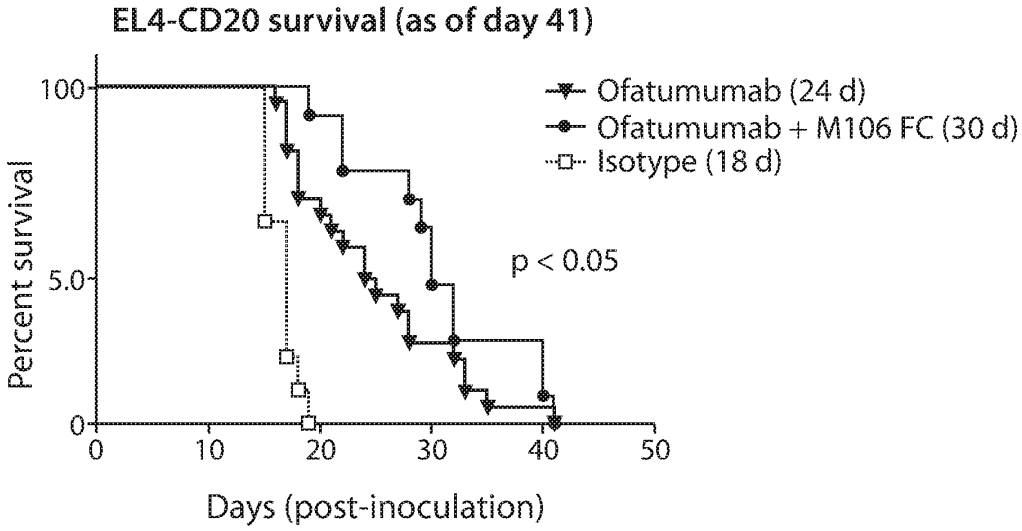


FIGURE 28B

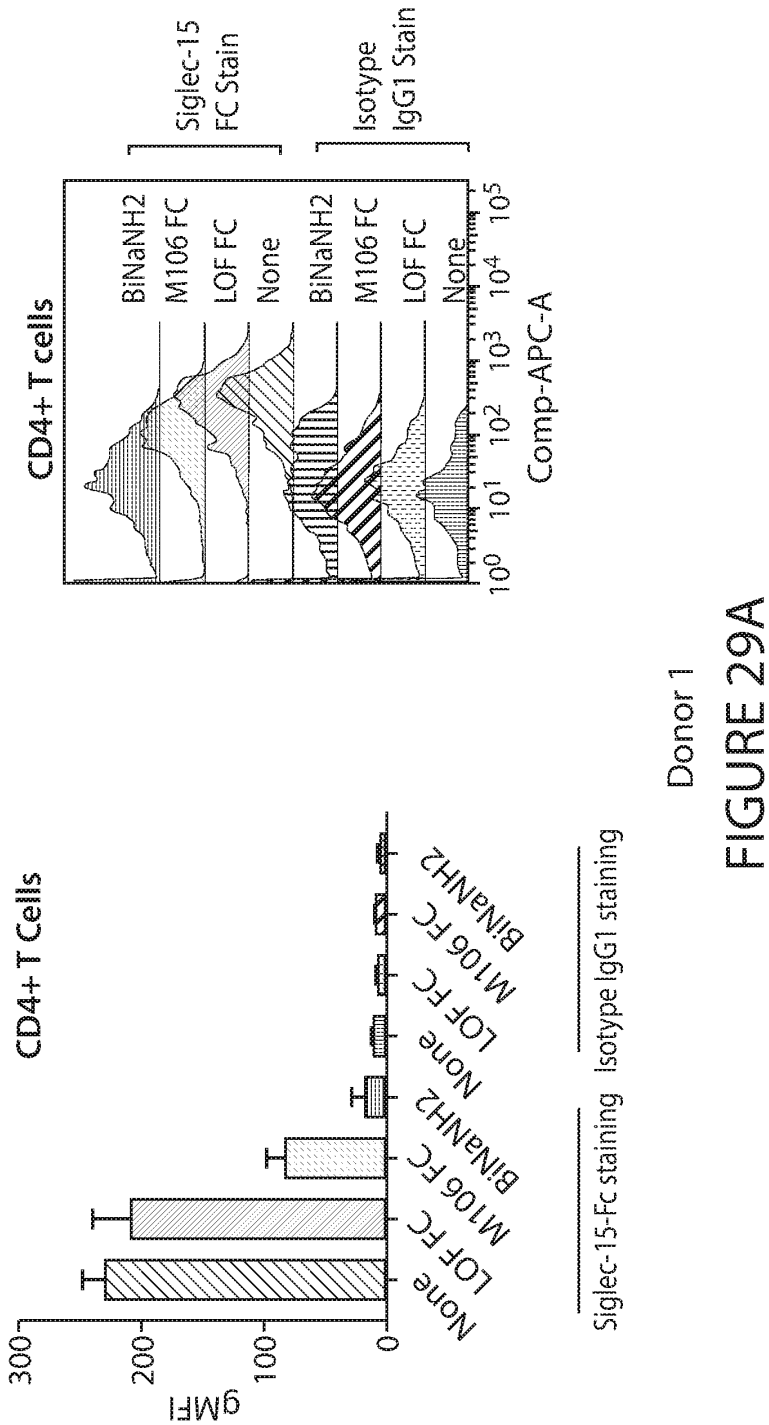

CD4+ T cells
BiNaNH2
M106 FC
LOF FC
None
Siglec-15 FC Stain
Isotype IgG1 Stain
Comp-APC-A
CD4+ T Cells
gMFI
Donor 1
Siglec-15-Fc staining
Isotype IgG1 staining

FIGURE 29A

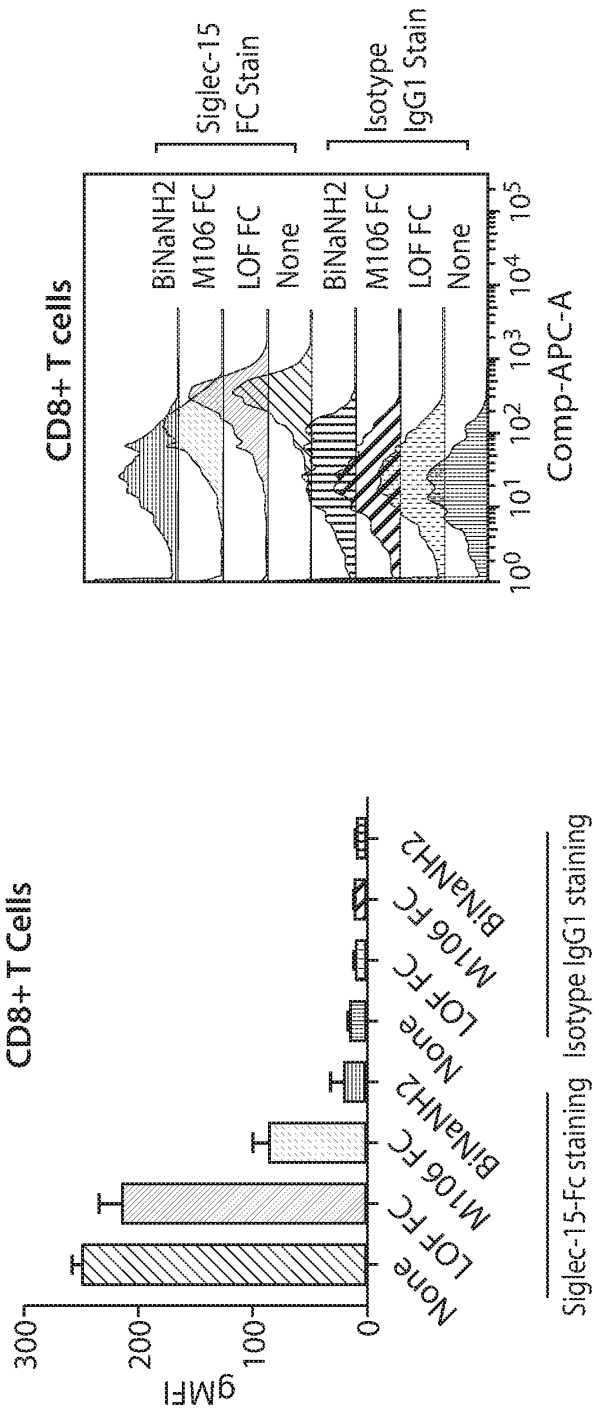

CD8+ T Cells
gMFI
300
200
100
0
None
LOF FC
M106 FC
BiNaNH2
None
LOF FC
M106 FC
BiNaNH2
Siglec-15-Fc staining
Isotype IgG1 staining
Donor 1
CD8+ T cells
BiNaNH2
M106 FC
LOF FC
None
BiNaNH2
M106 FC
LOF FC
None
Siglec-15 FC Stain
Isotype IgG1 Stain
10^0 10^1 10^2 10^3 10^4 10^5
Comp-APC-A

FIGURE 29B

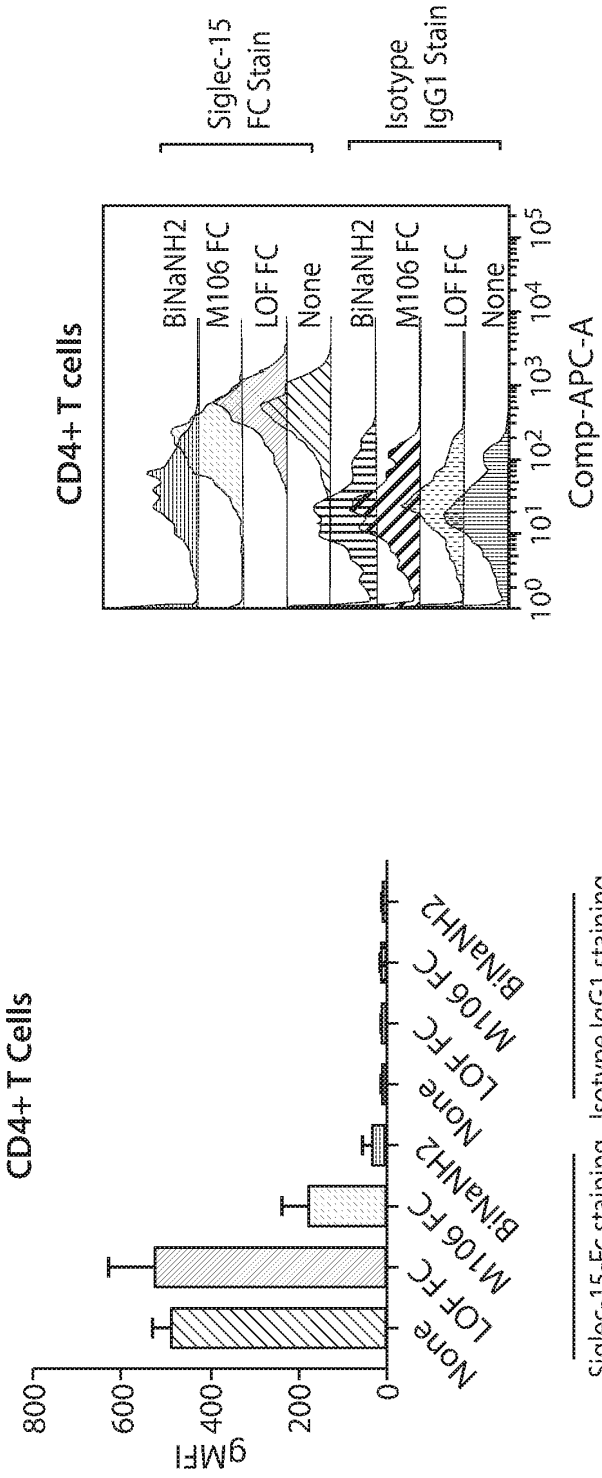

CD4+ T Cells
gMFI
800
600
400
200
0
None
LOF FC
M106 FC
BiNaNH2
None
LOF FC
M106 FC
BiNaNH2
Siglec-15-Fc staining
Isotype IgG1 staining
Donor 2
CD4+ T cells
BiNaNH2
M106 FC
LOF FC
None
BiNaNH2
M106 FC
LOF FC
None
Siglec-15 FC Stain
Isotype IgG1 Stain
Comp-APC-A
10^0 10^1 10^2 10^3 10^4 10^5

FIGURE 30A

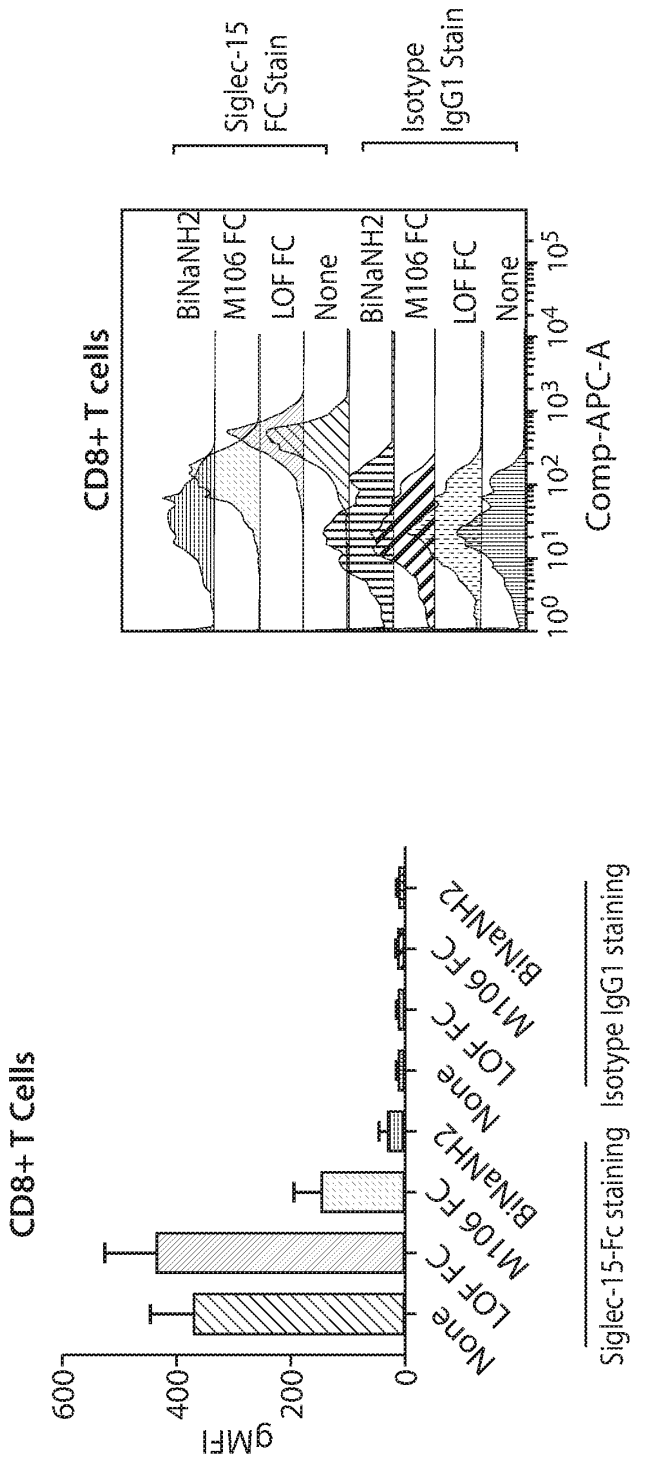

CD8+ T Cells
gMFI
600
400
200
0
None
LOF FC
M106 FC
BiNaNH2
None
LOF FC
M106 FC
BiNaNH2
Siglec-15-Fc staining
Isotype IgG1 staining
CD8+ T cells
BiNaNH2
M106 FC
LOF FC
None
BiNaNH2
M106 FC
LOF FC
None
Siglec-15 FC Stain
Isotype IgG1 Stain
Comp-APC-A
Donor 2

FIGURE 30B