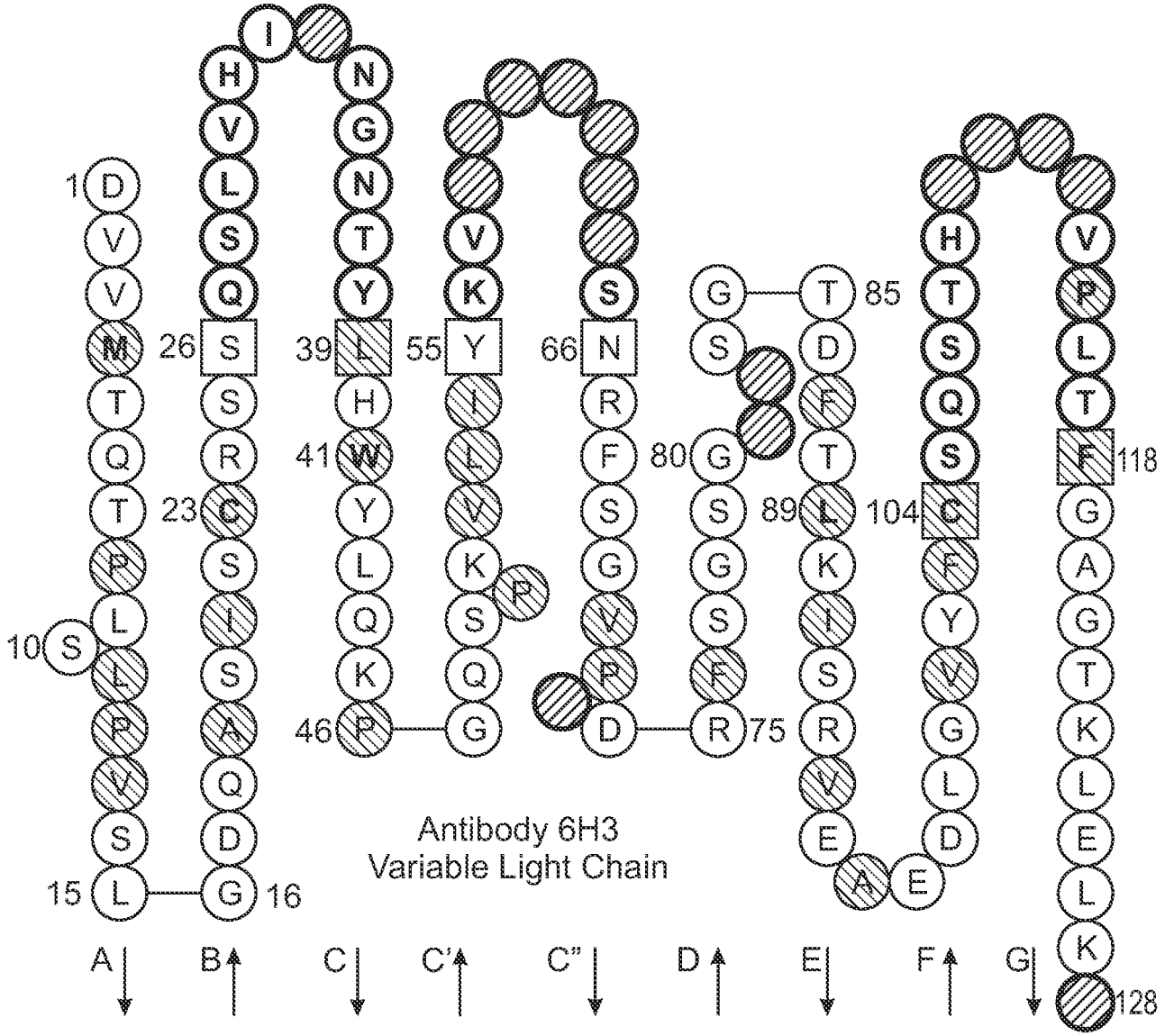


FIG. 1A

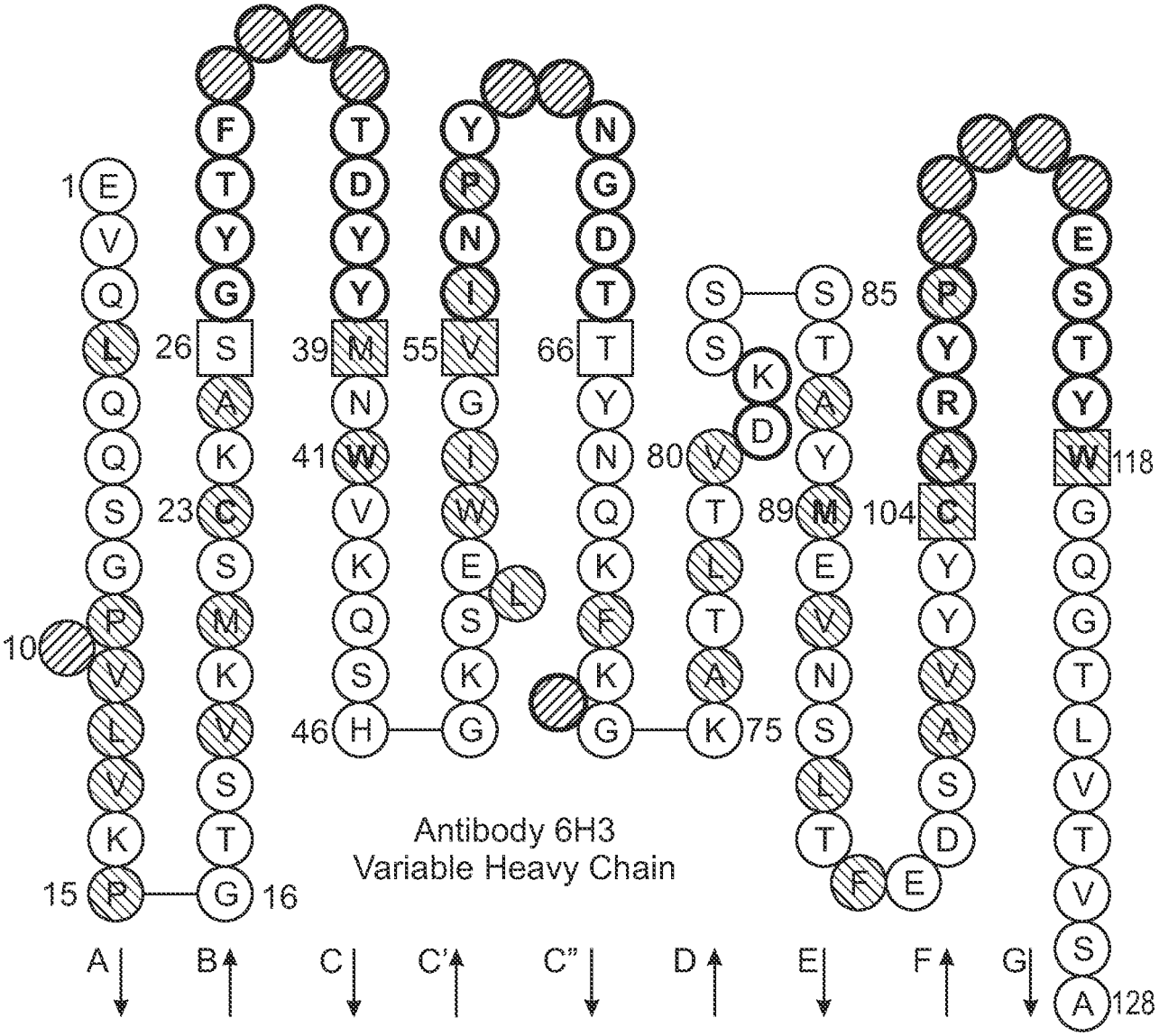


FIG. 1B

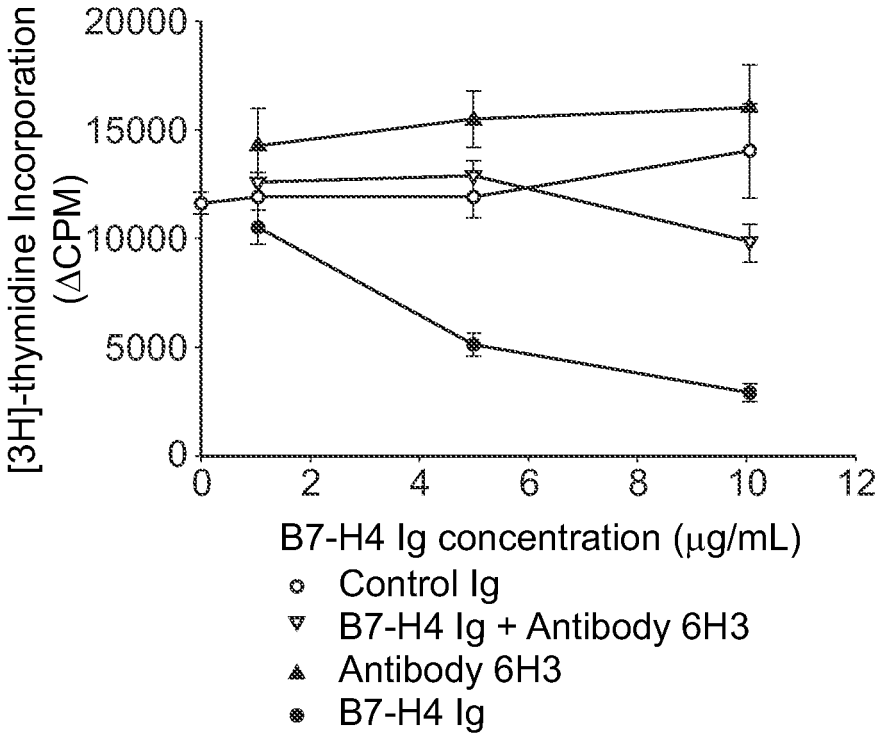

[3H]-thymidine Incorporation (ΔCPM)
20000
15000
10000
5000
0
0
2
4
6
8
10
12
B7-H4 Ig concentration (μg/mL)
Control Ig
B7-H4 Ig + Antibody 6H3
Antibody 6H3
B7-H4 Ig

FIG. 2A

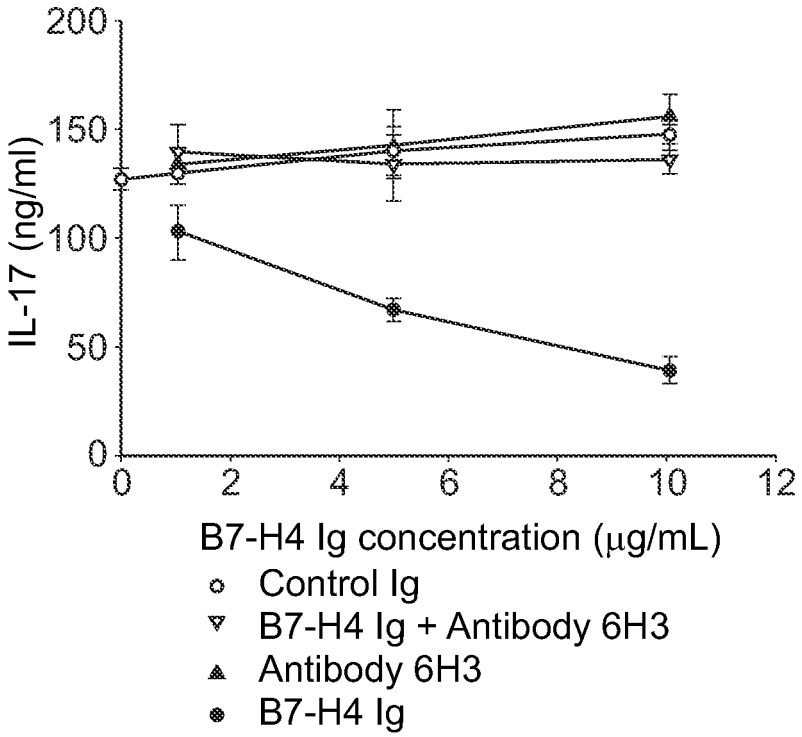
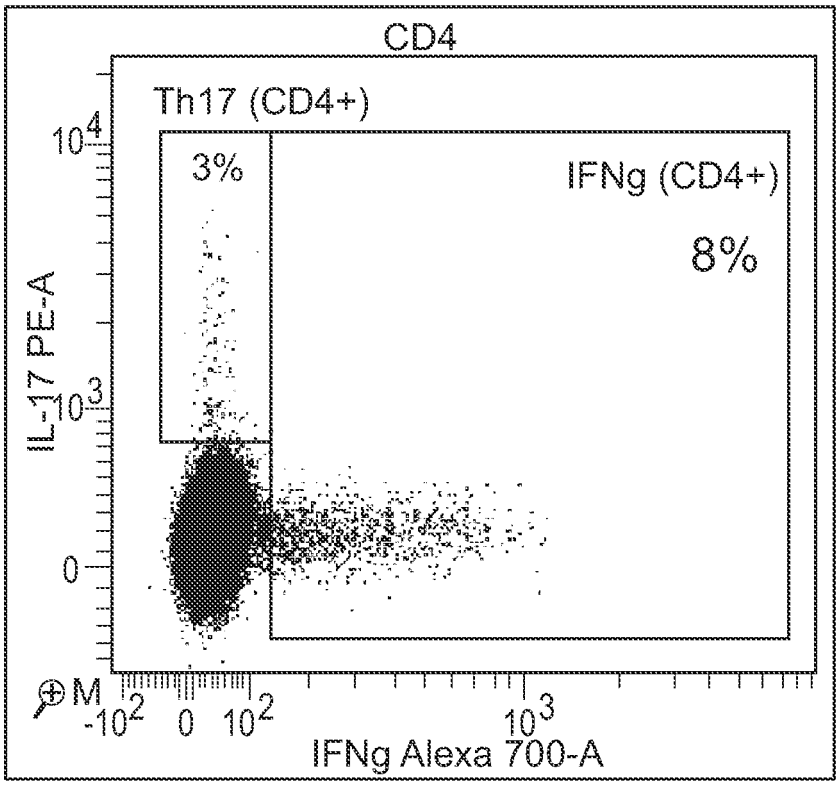
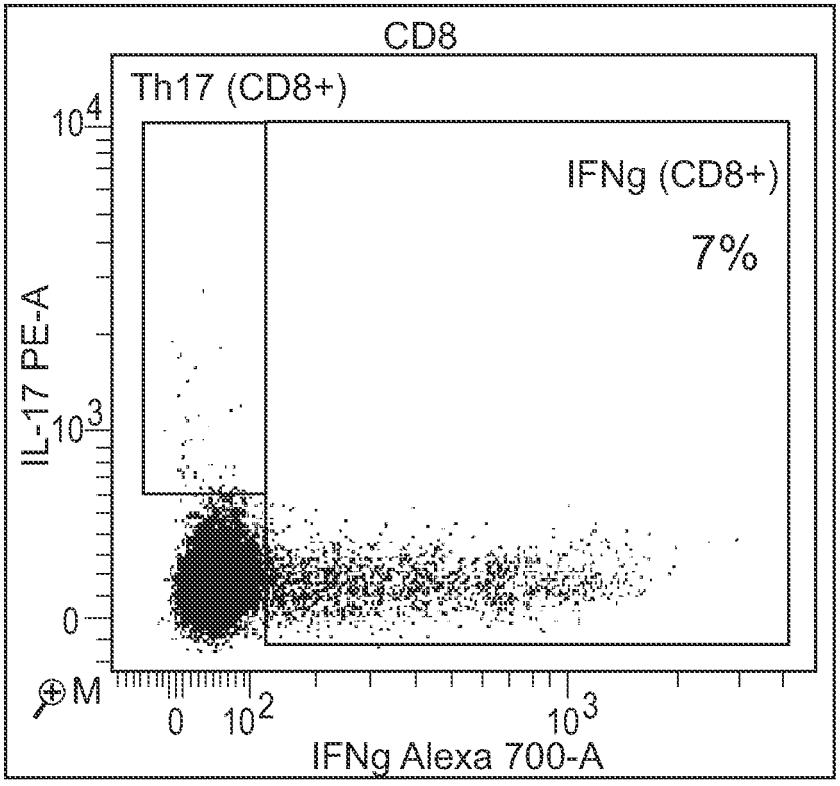

IL-17 (ng/ml)
200
150
100
50
0
0
2
4
6
8
10
12
B7-H4 Ig concentration (μg/mL)
Control Ig
B7-H4 Ig + Antibody 6H3
Antibody 6H3
B7-H4 Ig

FIG. 2B



CD4; Isotype control

FIG. 3A



CD8; Isotype control

FIG. 3B

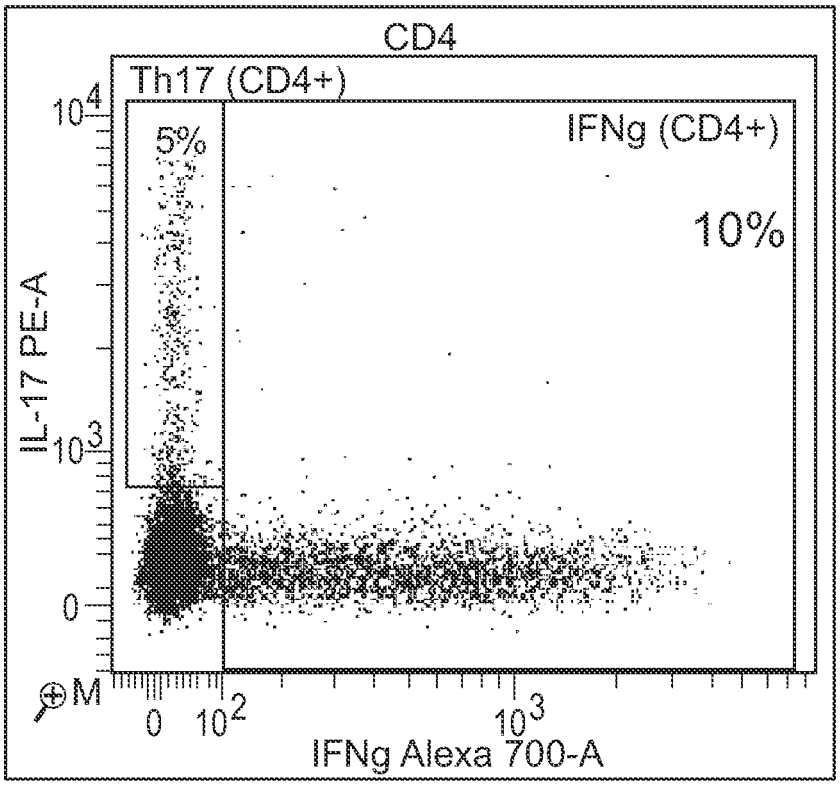

CD4
Th17 (CD4+)
IFNg (CD4+)
5%
10%
IL-17 PE-A
IFNg Alexa 700-A
CD4; Anti-B7-H4 6H3

FIG. 3C

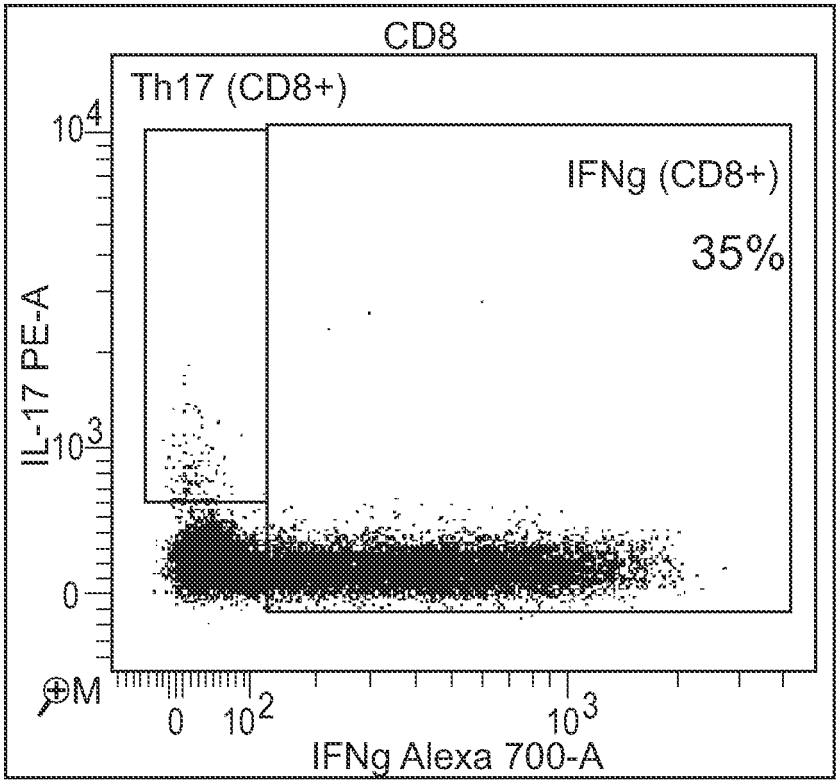

CD8
Th17 (CD8+)
IFNg (CD8+)
35%
IL-17 PE-A
IFNg Alexa 700-A
CD8; Anti-B7-H4 6H3

FIG. 3D

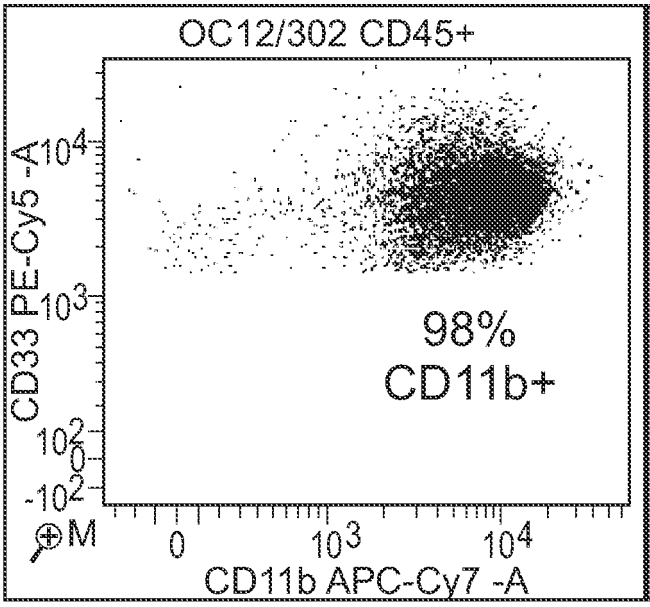


FIG. 4A

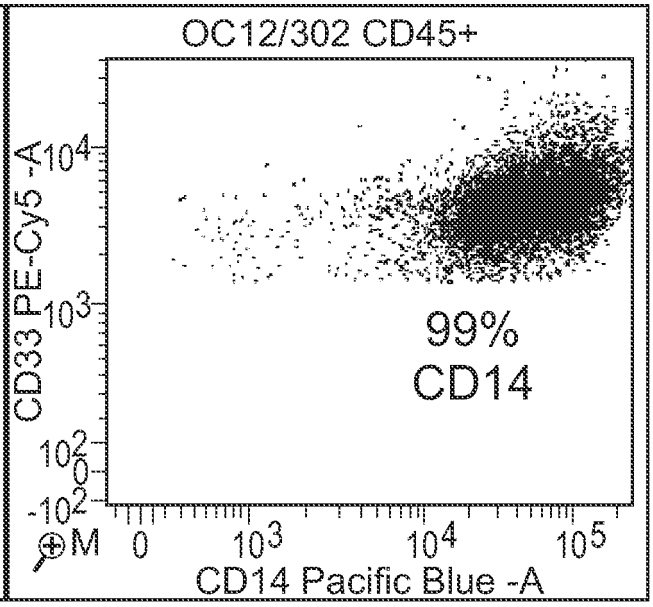


FIG. 4B

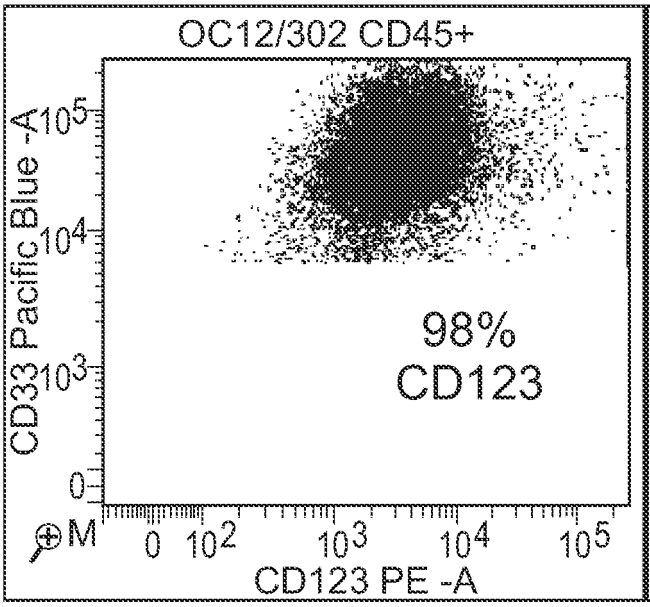


FIG. 4C

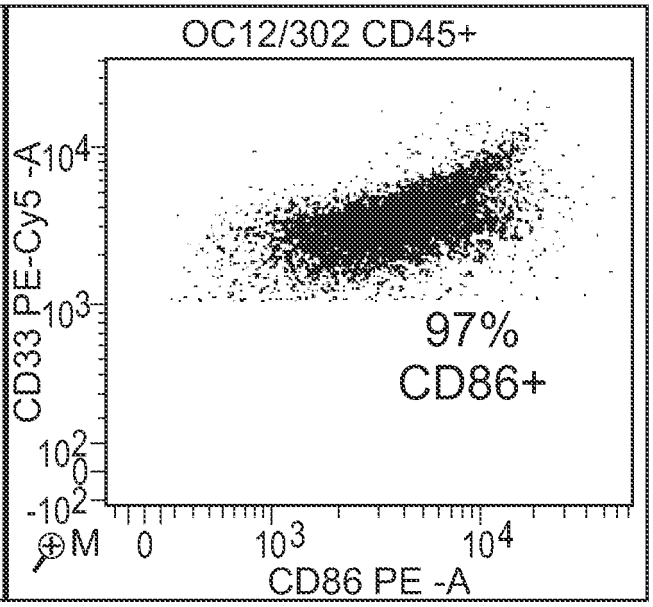


FIG. 4D

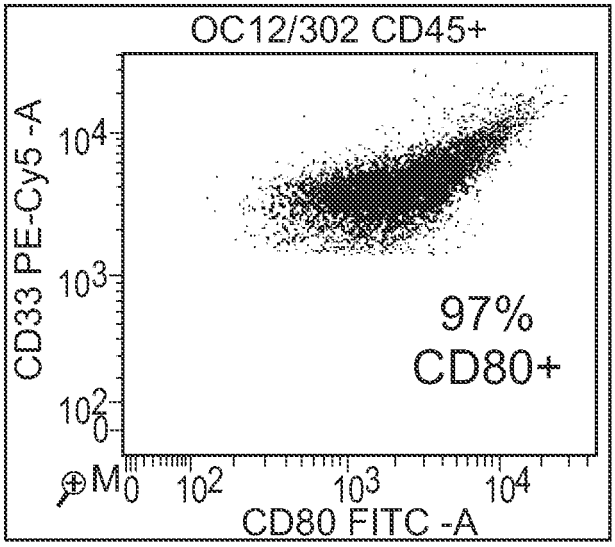


FIG. 4E

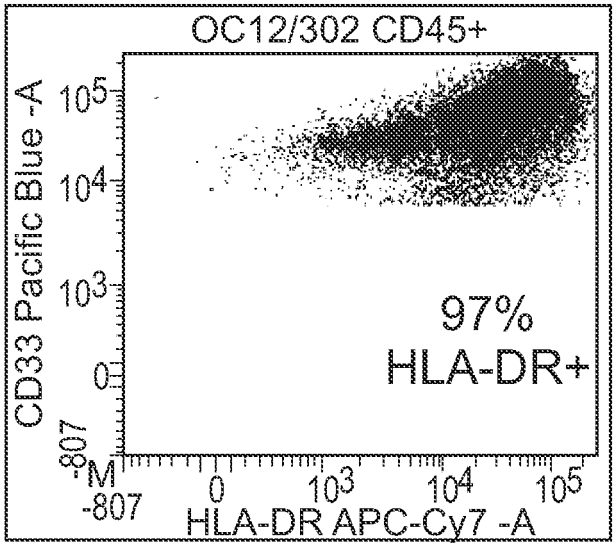


FIG. 4F

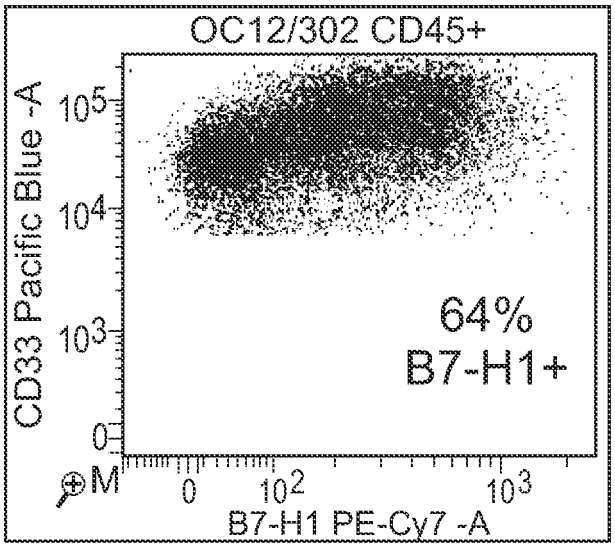


FIG. 4G

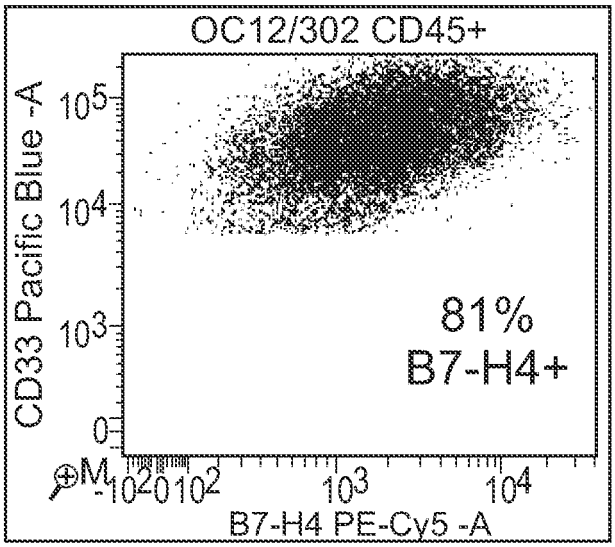


FIG. 4H

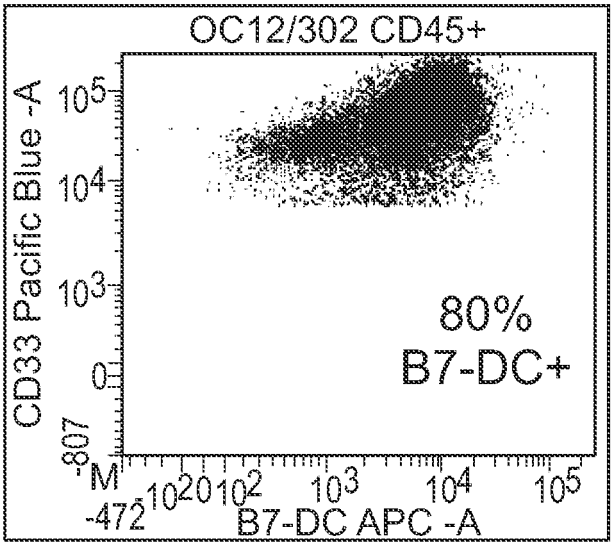


FIG. 4I

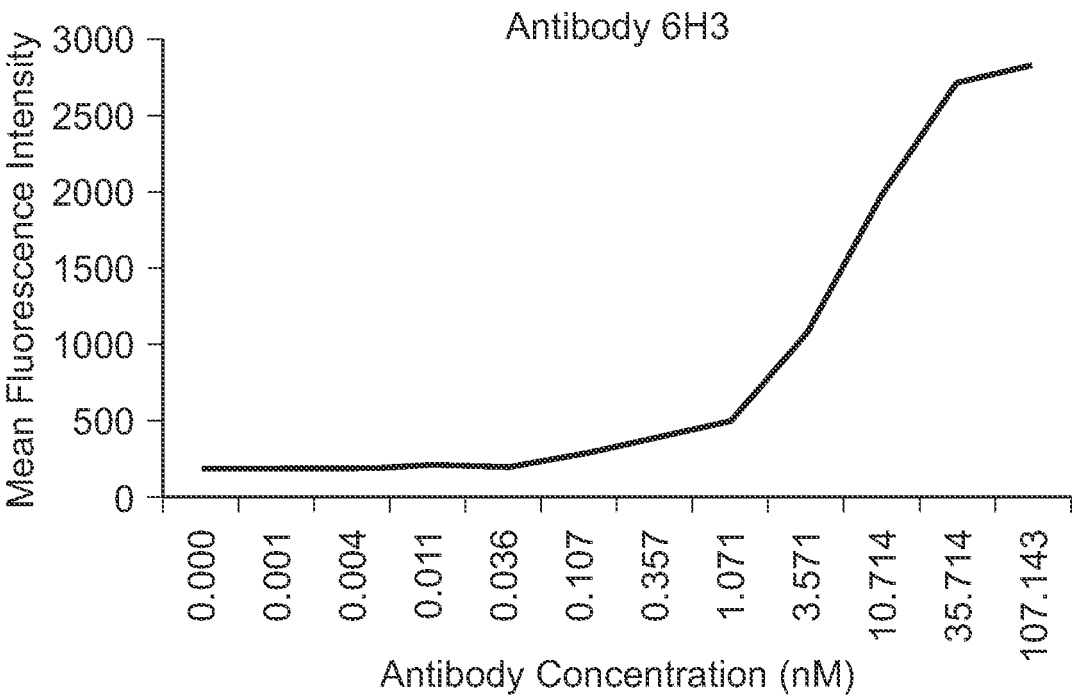

Antibody 6H3
Mean Fluorescence Intensity
3000
2500
2000
1500
1000
500
0
0.000
0.001
0.004
0.011
0.036
0.107
0.357
1.071
3.571
10.714
35.714
107.143
Antibody Concentration (nM)

FIG. 5

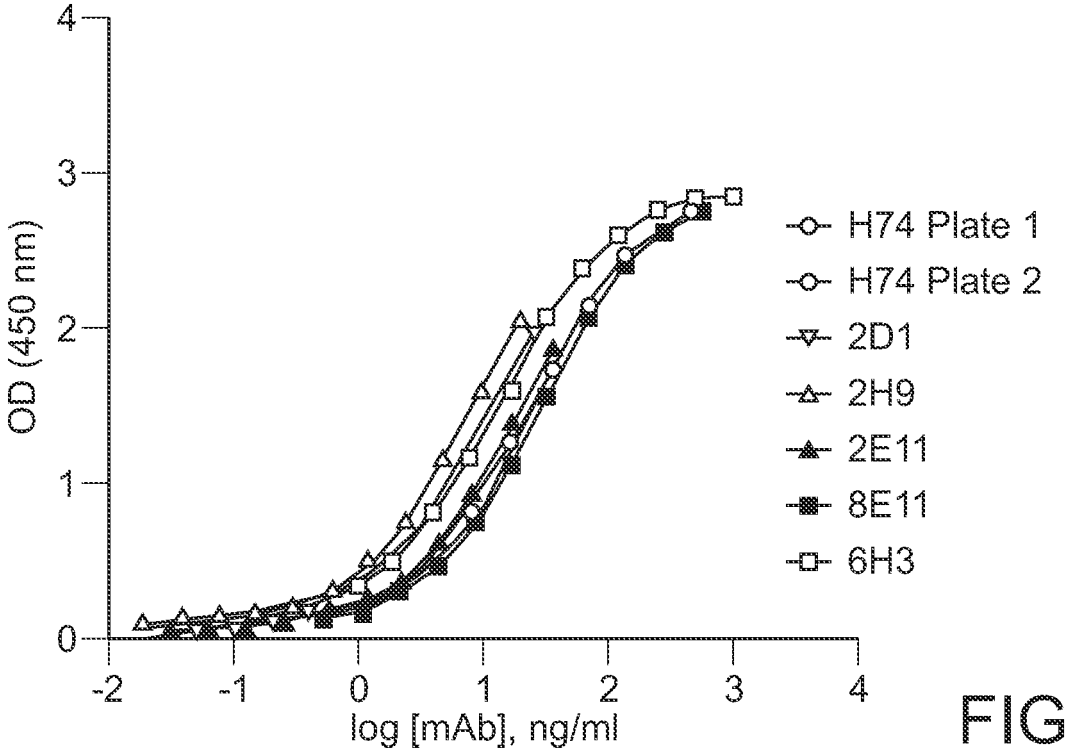

OD (450 nm)
4
3
2
1
0
-2
-1
0
1
2
3
4
log [mAb], ng/ml
H74 Plate 1
H74 Plate 2
2D1
2H9
2E11
8E11
6H3

FIG. 6

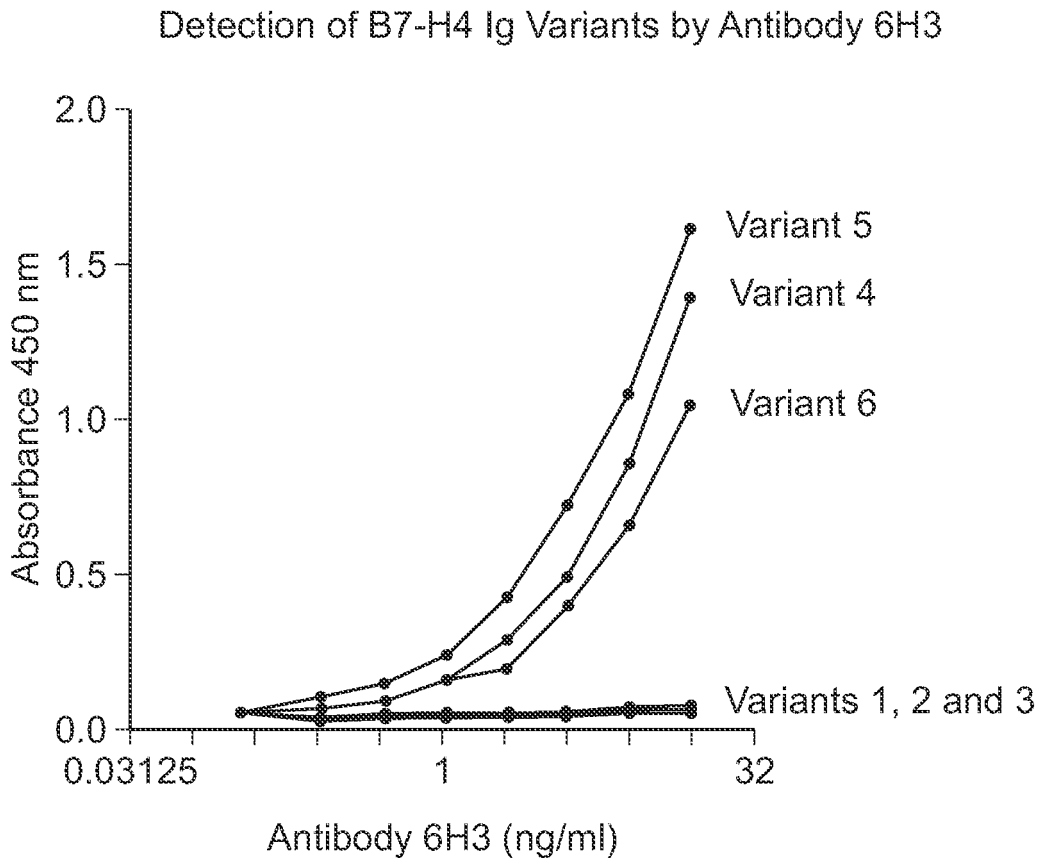

Detection of B7-H4 Ig Variants by Antibody 6H3
Absorbance 450 nm
2.0
1.5
1.0
0.5
0.0
0.03125
1
32
Antibody 6H3 (ng/ml)
Variant 5
Variant 4
Variant 6
Variants 1, 2 and 3

FIG. 7

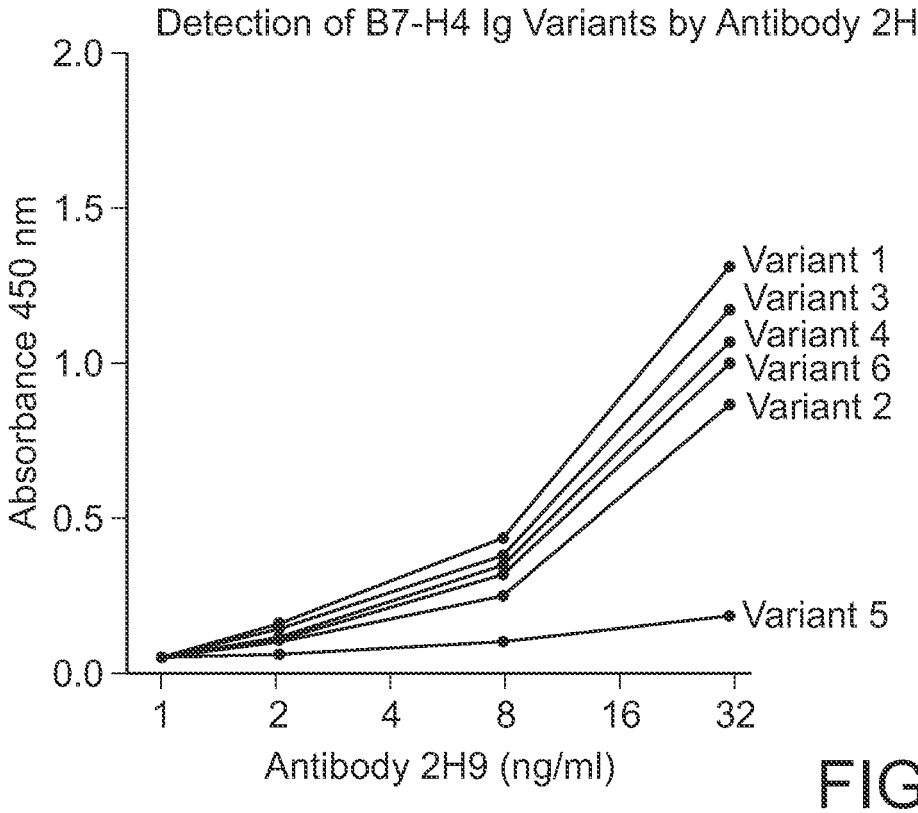

Detection of B7-H4 Ig Variants by Antibody 2H9
Absorbance 450 nm
2.0
1.5
1.0
0.5
0.0
Variant 1
Variant 3
Variant 4
Variant 6
Variant 2
Variant 5
1
2
4
8
16
32
Antibody 2H9 (ng/ml)

FIG. 8A

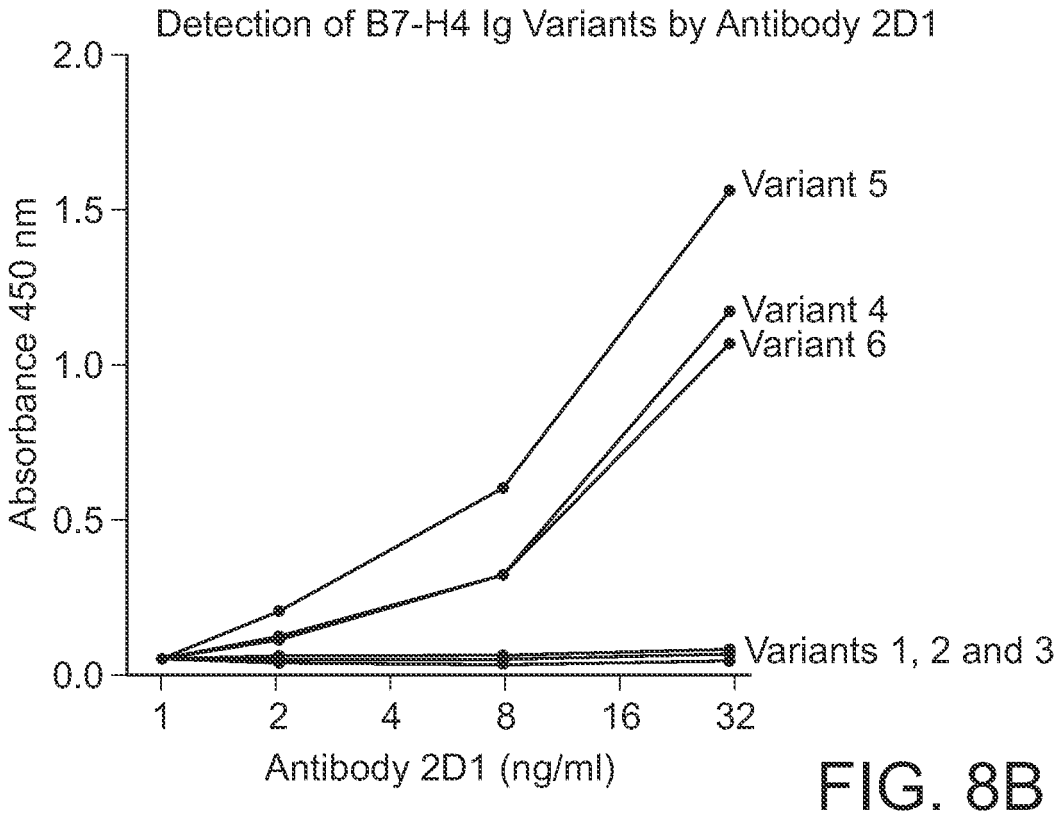

Detection of B7-H4 Ig Variants by Antibody 2D1
Absorbance 450 nm
2.0
1.5
1.0
0.5
0.0
Variant 5
Variant 4
Variant 6
Variants 1, 2 and 3
1
2
4
8
16
32
Antibody 2D1 (ng/ml)

FIG. 8B

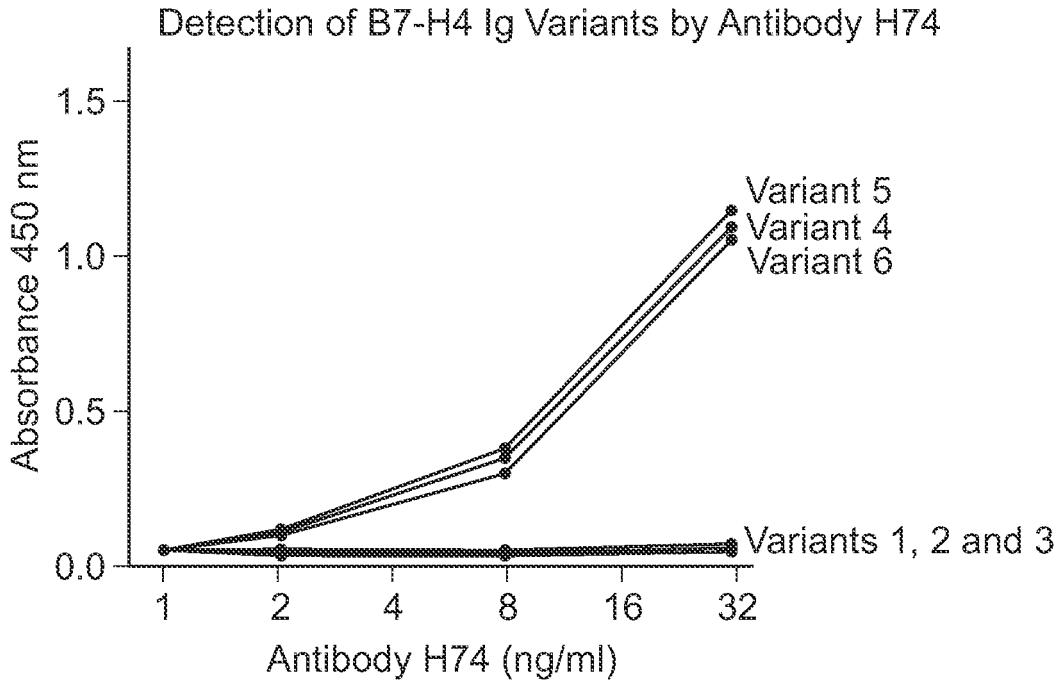

Detection of B7-H4 Ig Variants by Antibody H74
Absorbance 450 nm
1.5
1.0
0.5
0.0
Variant 5
Variant 4
Variant 6
Variants 1, 2 and 3
1
2
4
8
16
32
Antibody H74 (ng/ml)

FIG. 8C

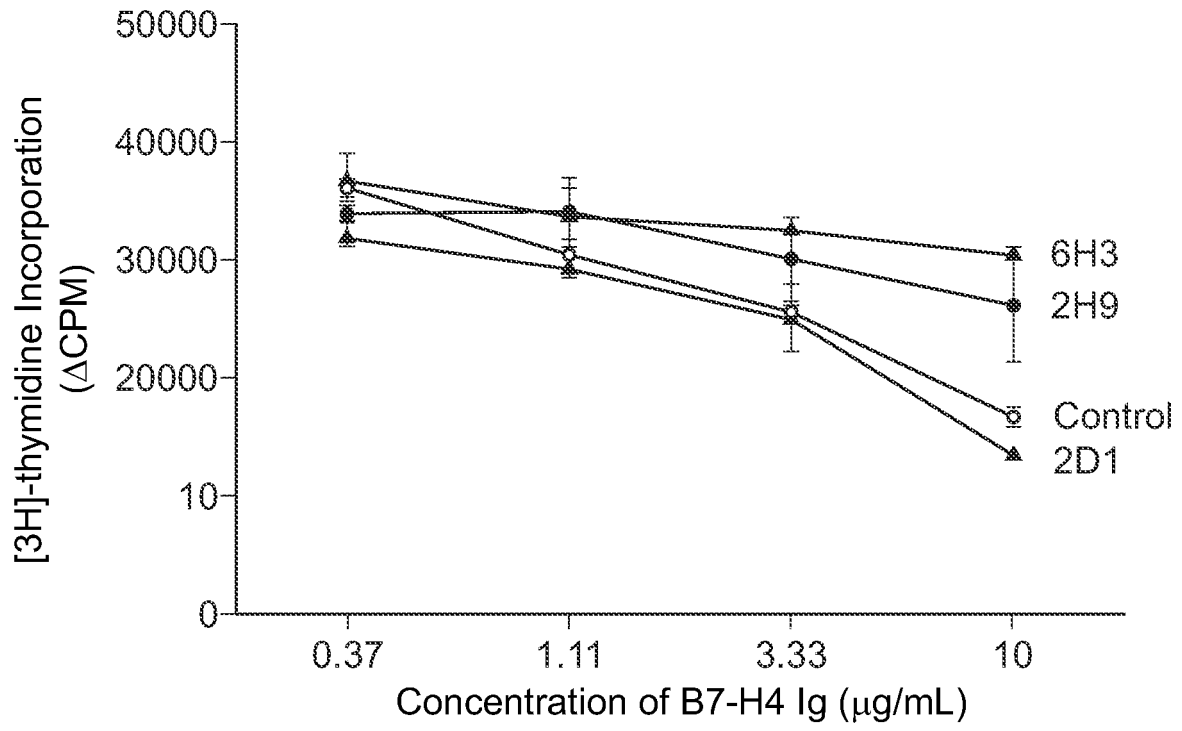

[3H]-thymidine Incorporation (ΔCPM)
50000
40000
30000
20000
10
0
6H3
2H9
Control
2D1
0.37
1.11
3.33
10
Concentration of B7-H4 Ig (μg/mL)

FIG. 9

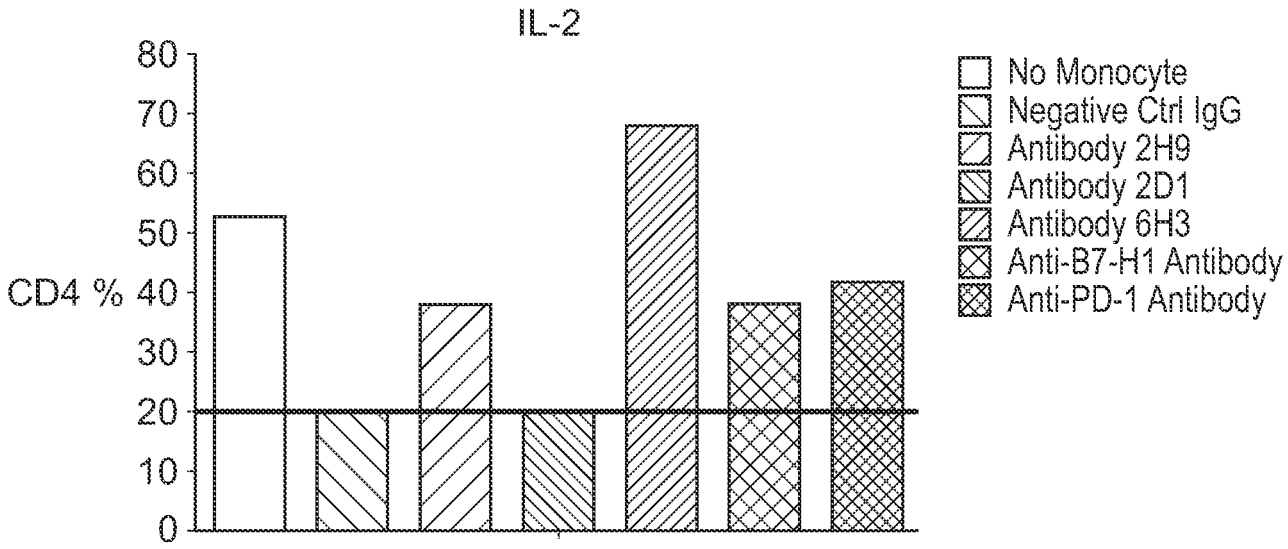


FIG. 10A

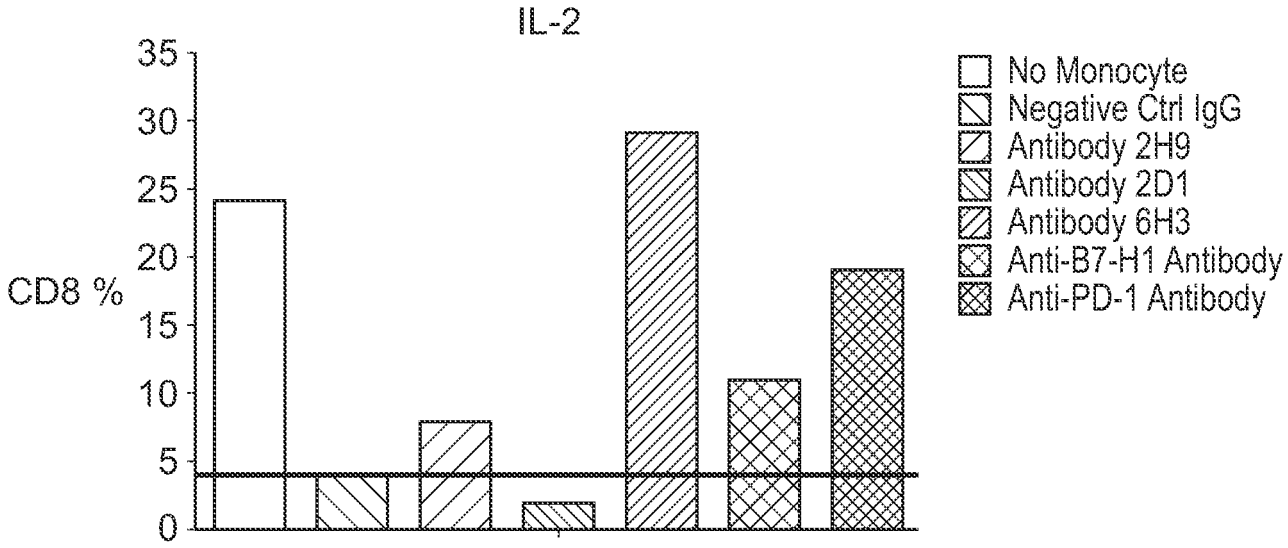


FIG. 10B

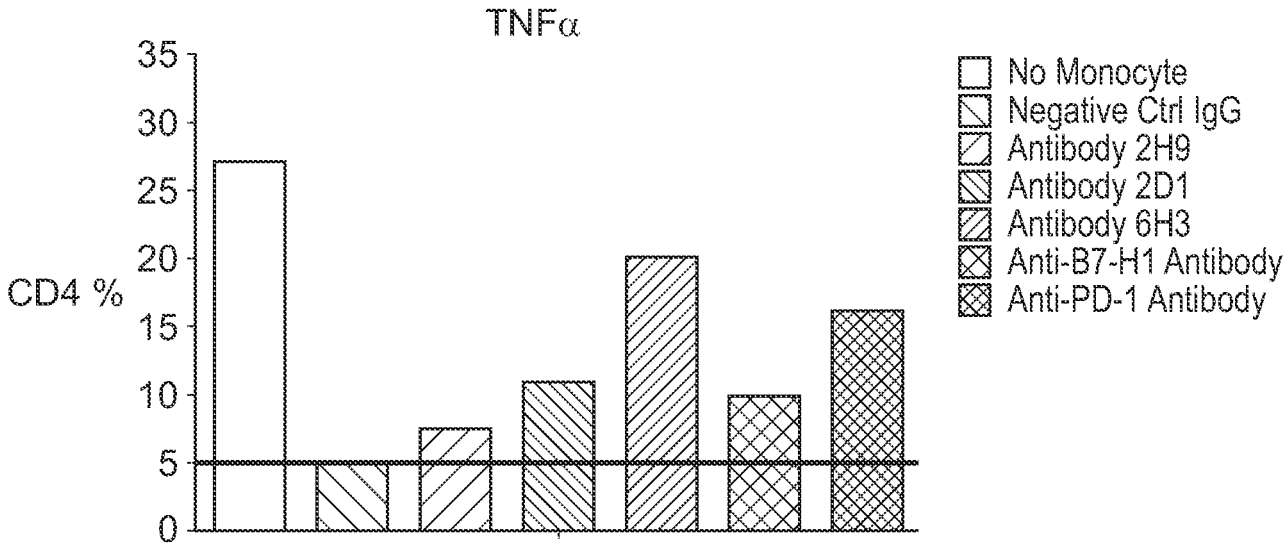


FIG. 10C

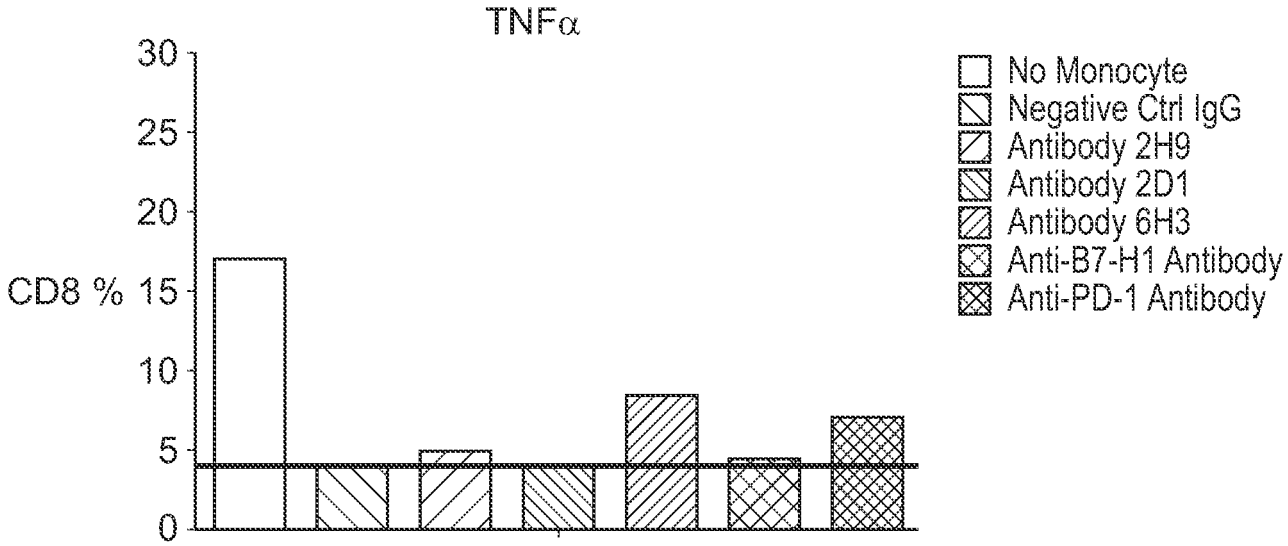


FIG. 10D

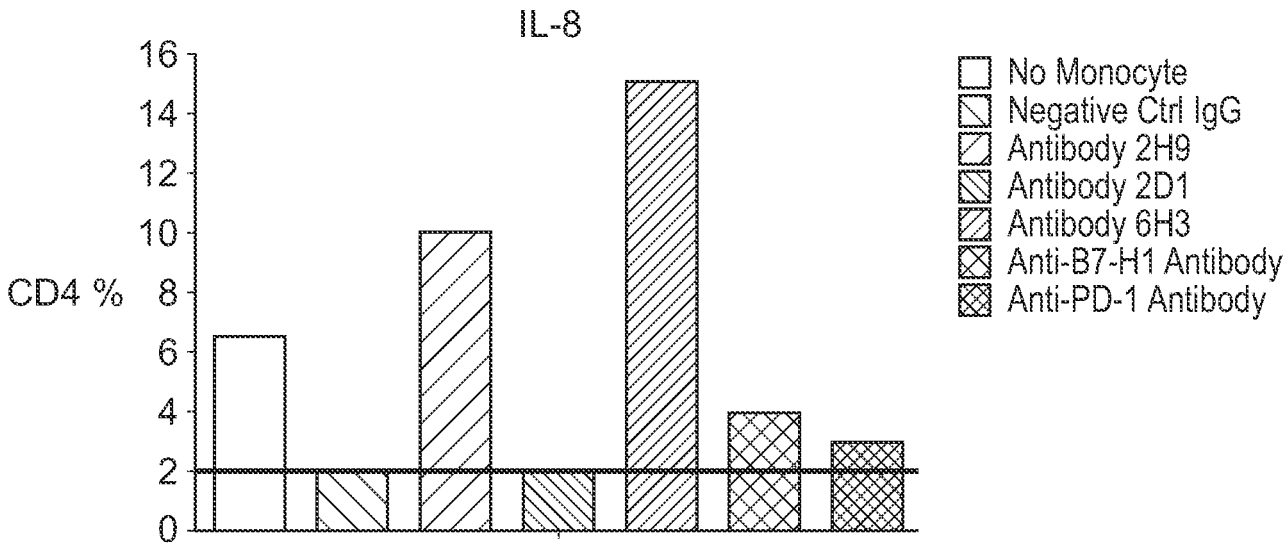


FIG. 10E

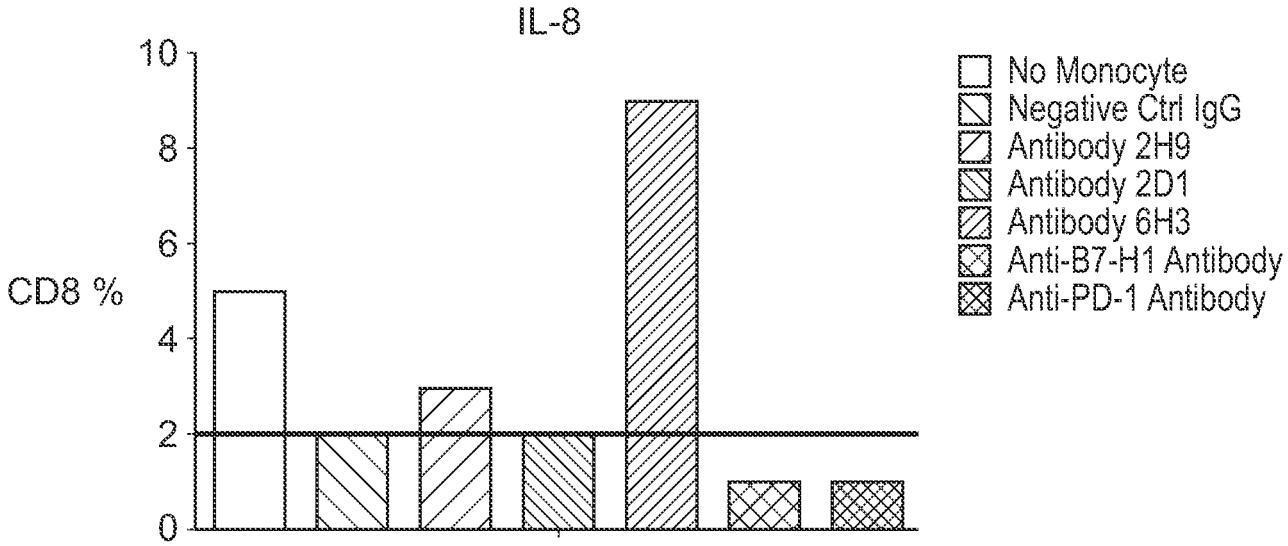


FIG. 10F

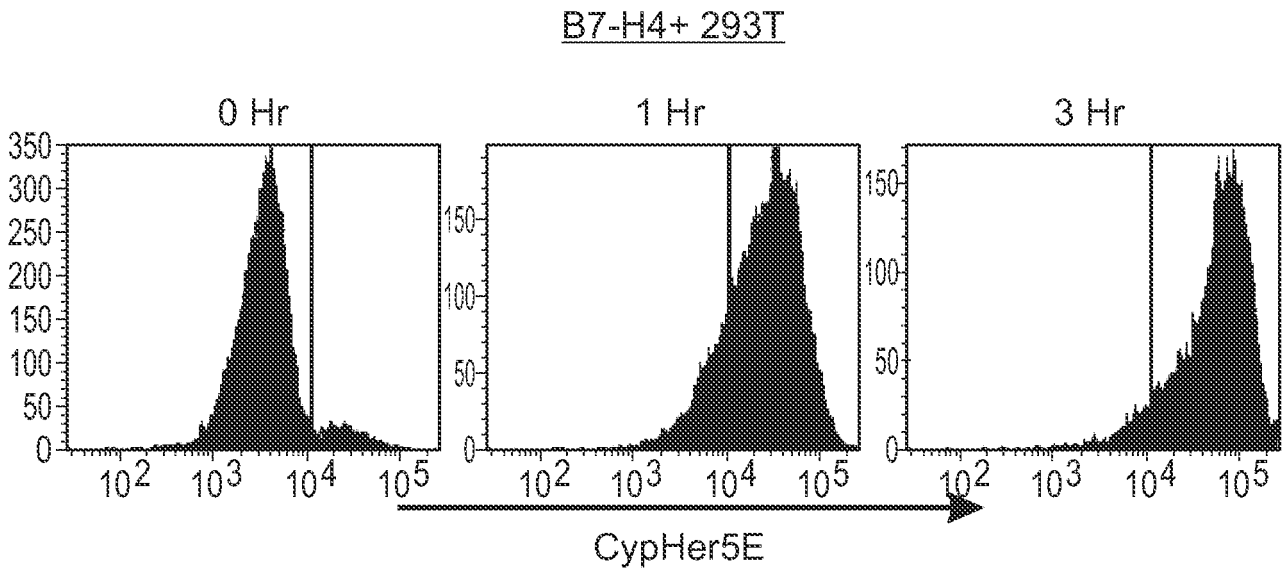


FIG. 11A

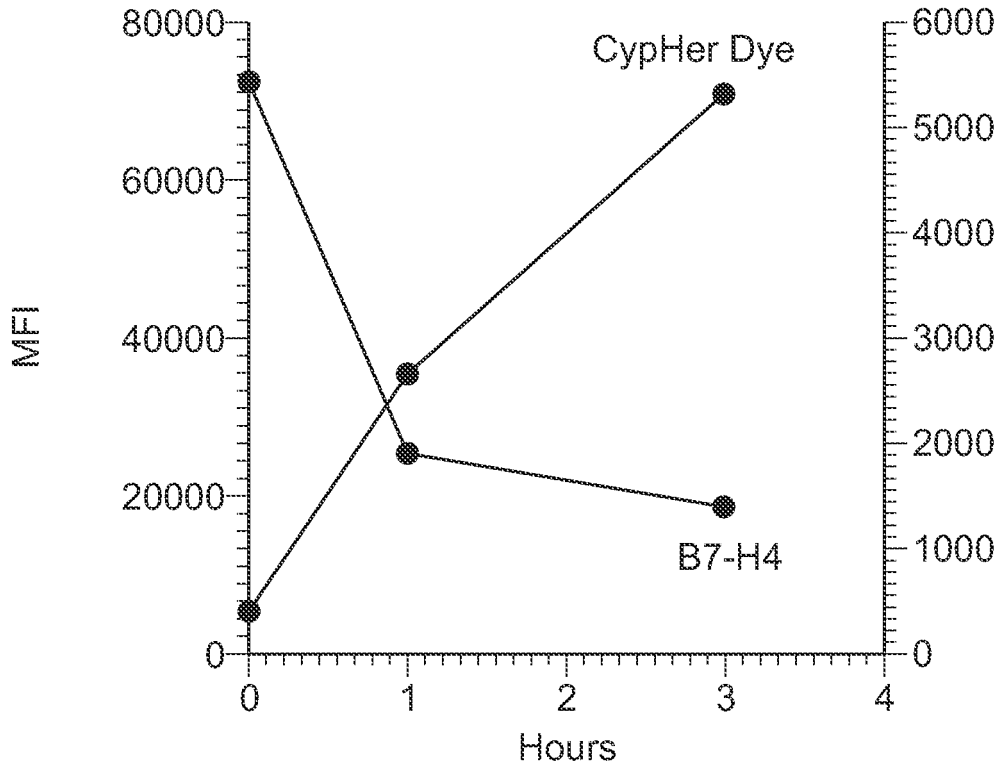


FIG. 11B

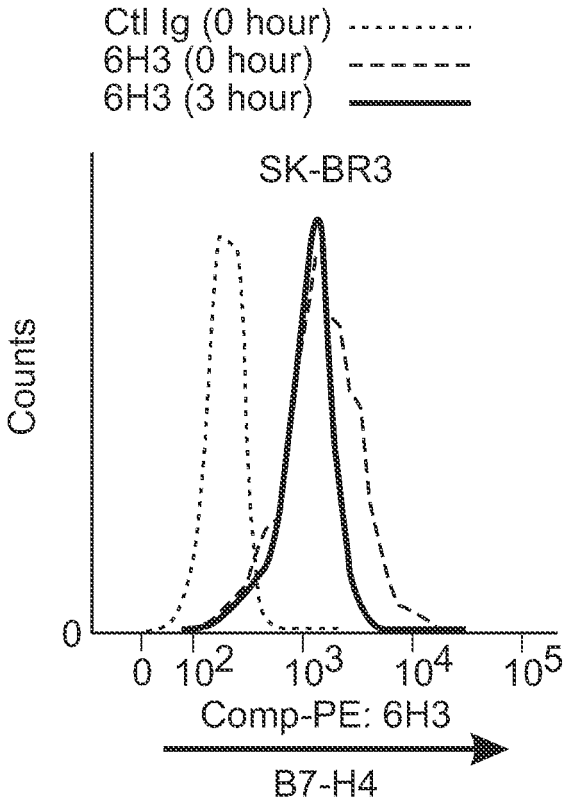


FIG. 12A

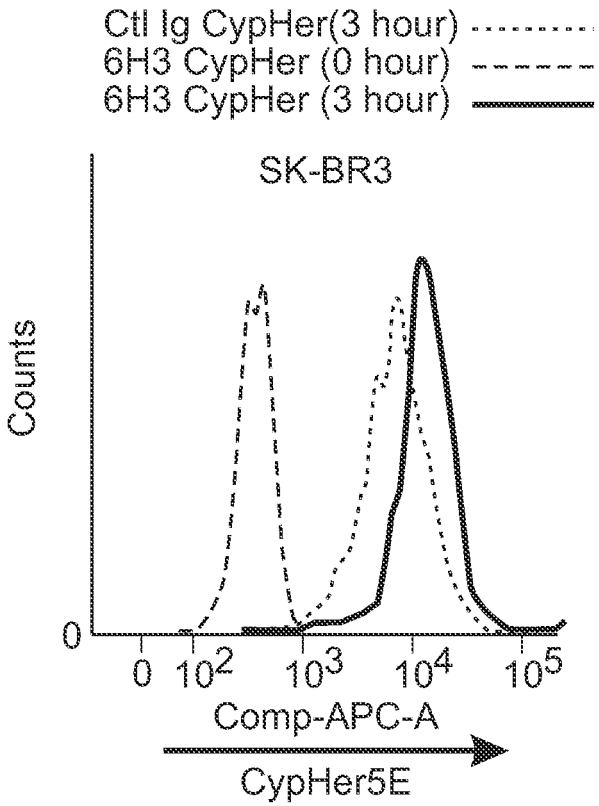


FIG. 12B

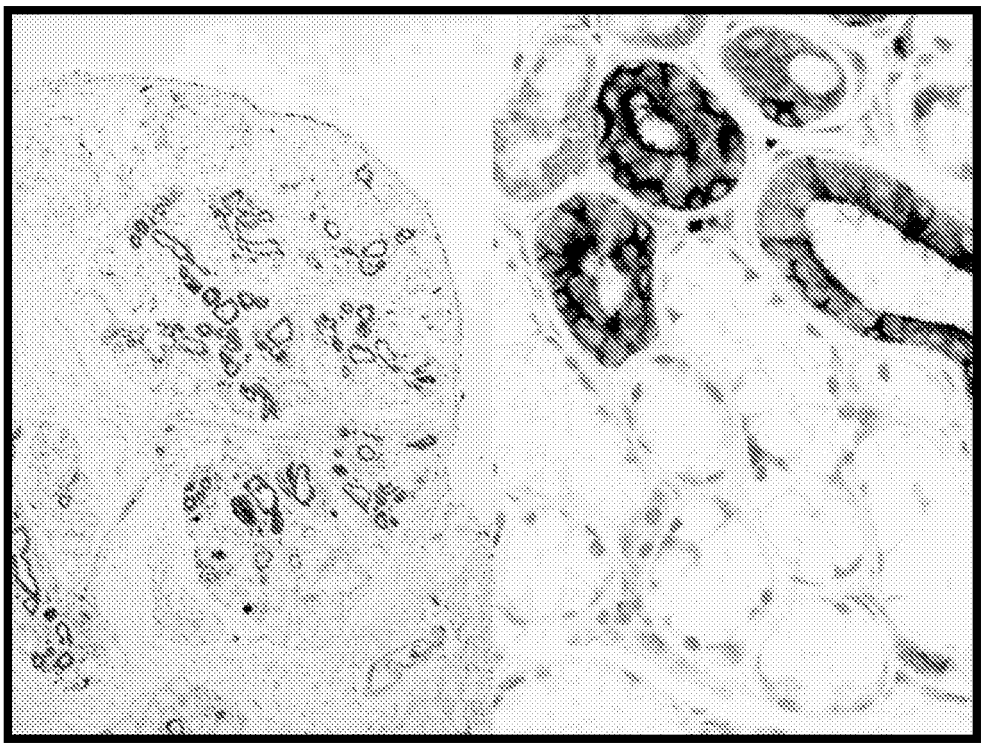


FIG. 13A

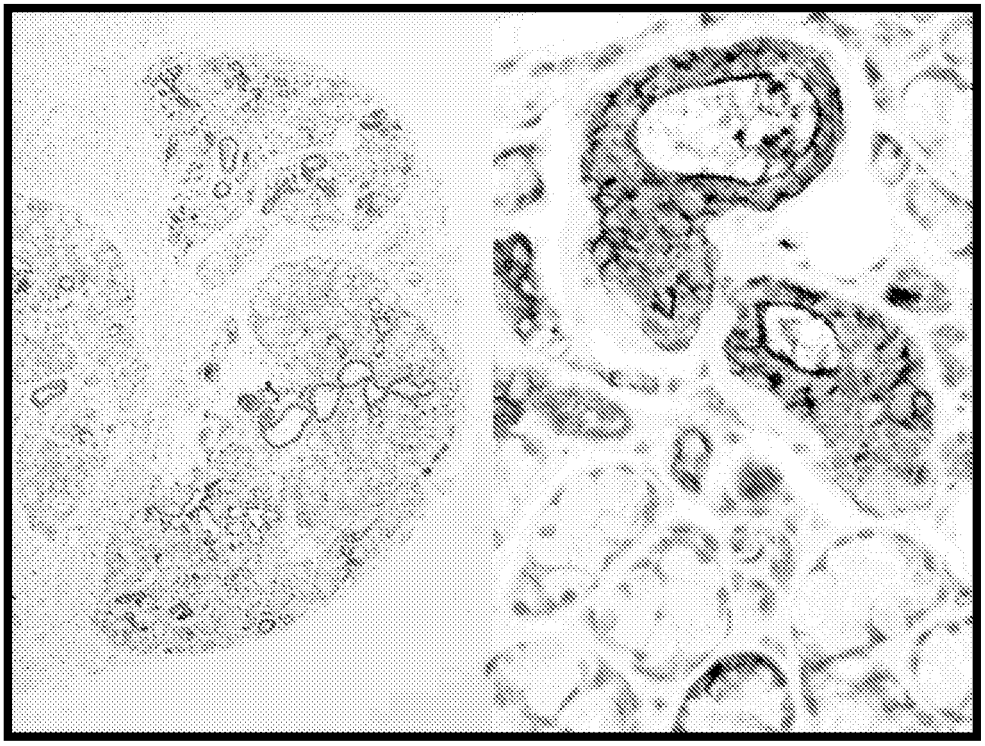


FIG. 13B



FIG. 13C

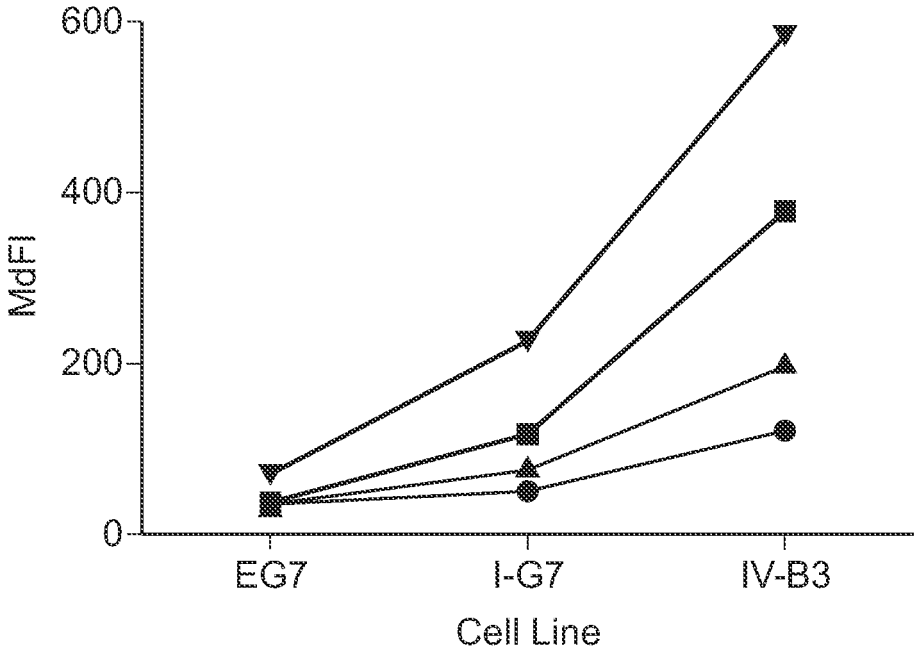

600
400
200
0
MdFI
EG7
I-G7
IV-B3
Cell Line

FIG. 14

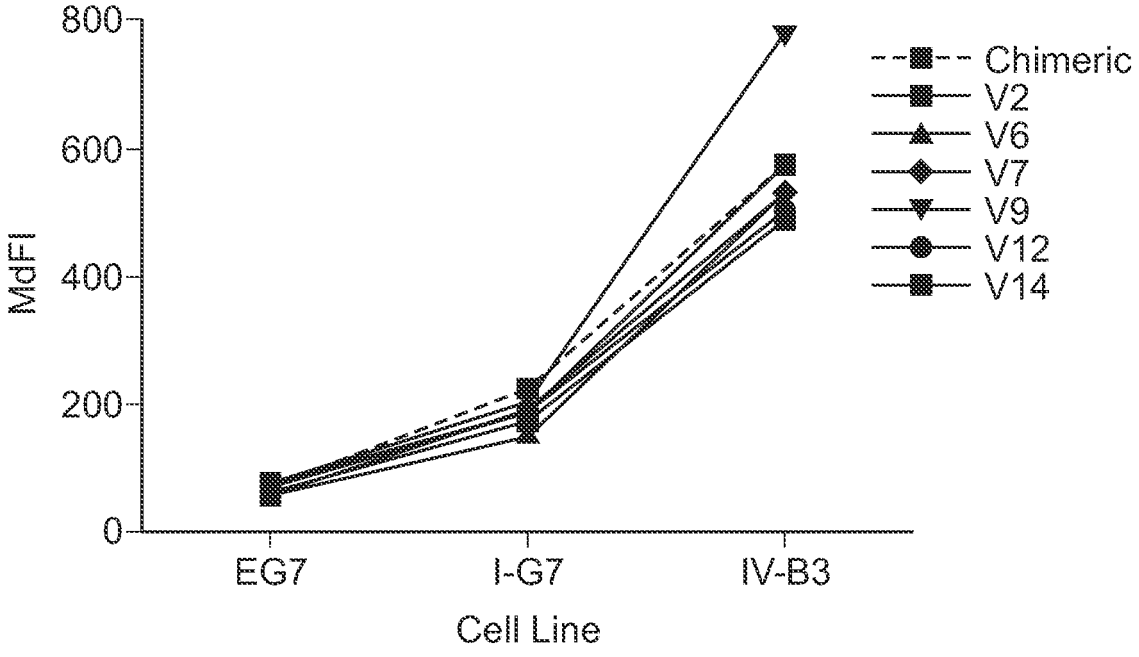

800
600
400
200
0
MdFI
EG7
I-G7
IV-B3
Cell Line
Chimeric
V2
V6
V7
V9
V12
V14

FIG. 15

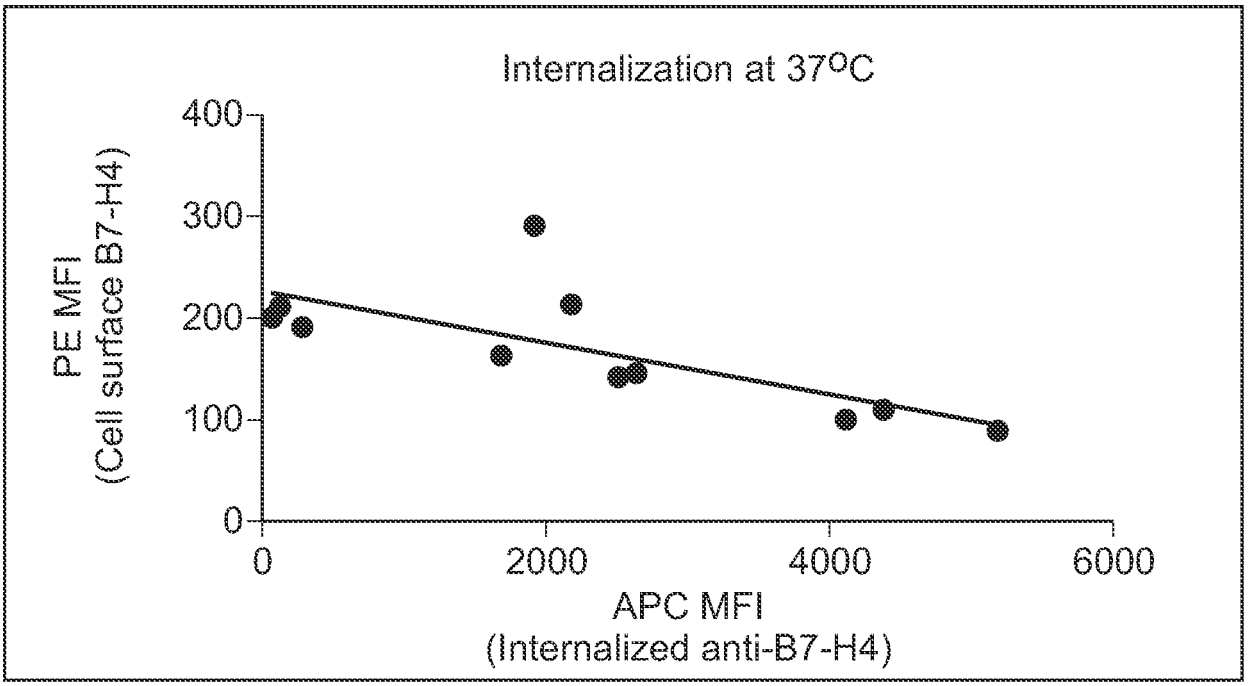

Internalization at 37°C
PE MFI
(Cell surface B7-H4)
400
300
200
100
0
0
2000
4000
6000
APC MFI
(Internalized anti-B7-H4)

FIG. 16

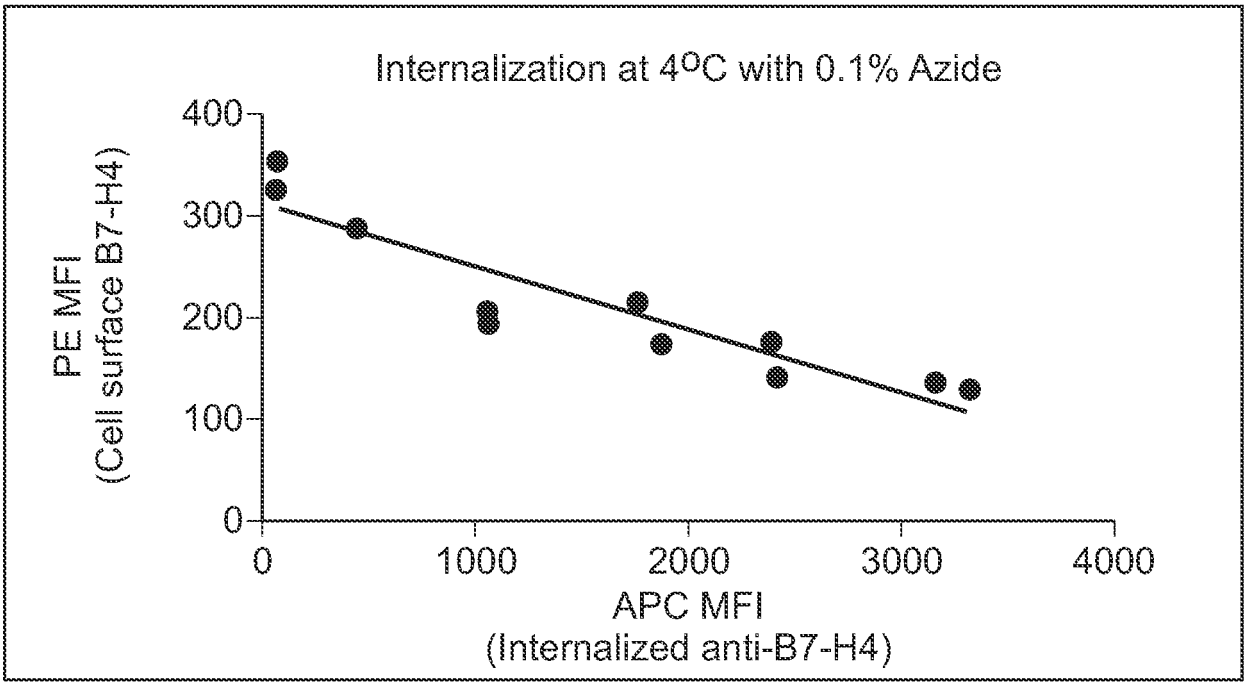

Internalization at 4°C with 0.1% Azide
PE MFI
(Cell surface B7-H4)
400
300
200
100
0
0
1000
2000
3000
4000
APC MFI
(Internalized anti-B7-H4)

FIG. 17

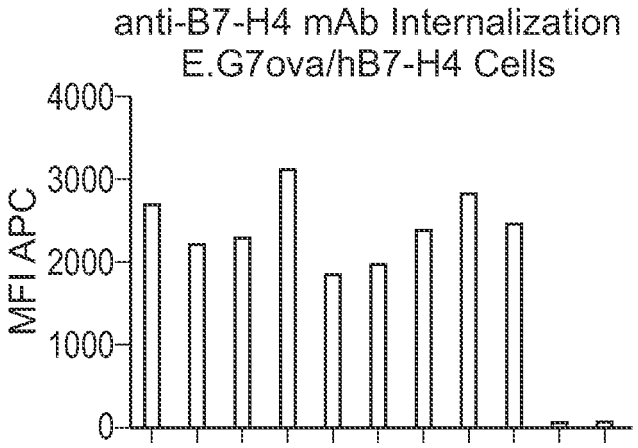


FIG. 18A

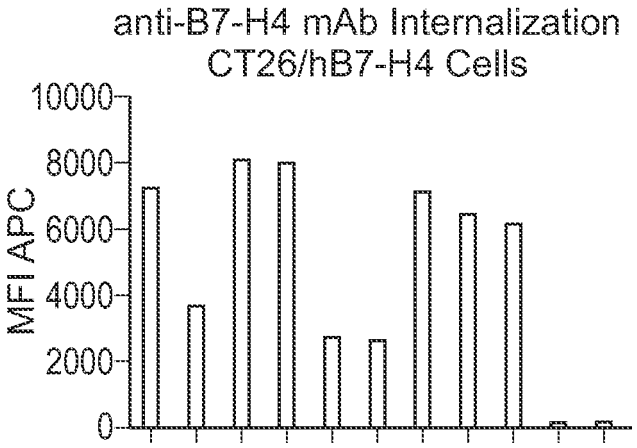


FIG. 18B

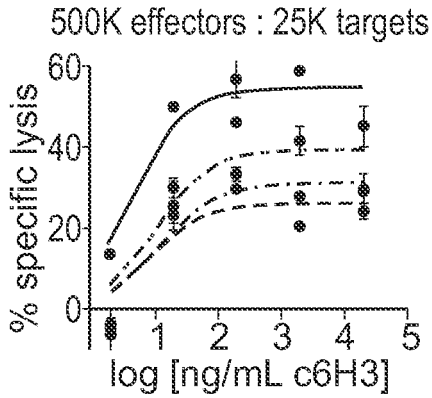


FIG. 19A

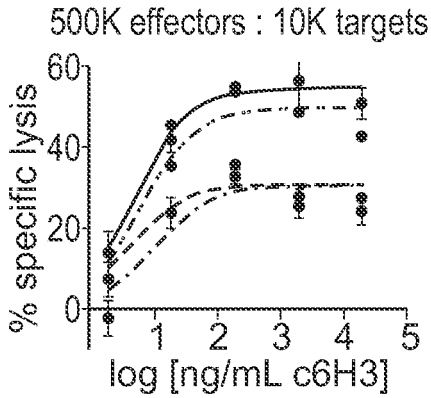


FIG. 19B

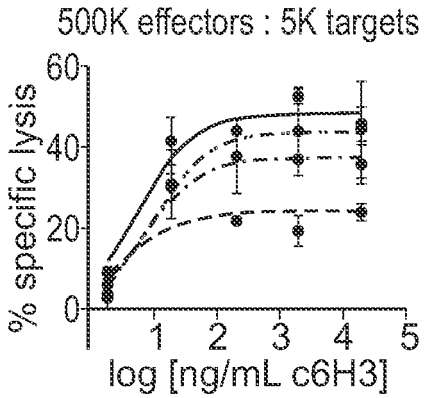


FIG. 19C

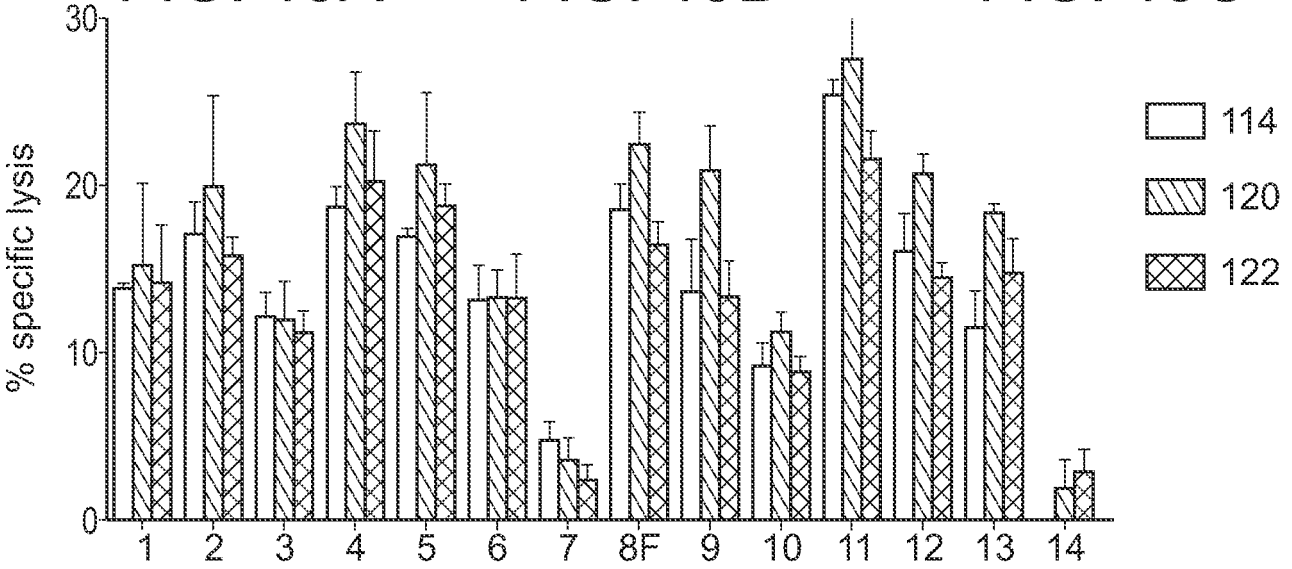


FIG. 20

V11 = solid circle, line
V14 = open circle, dashed line

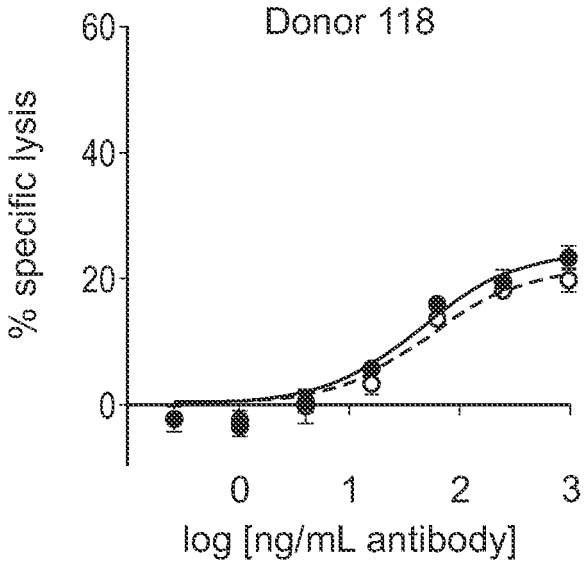


FIG. 21A

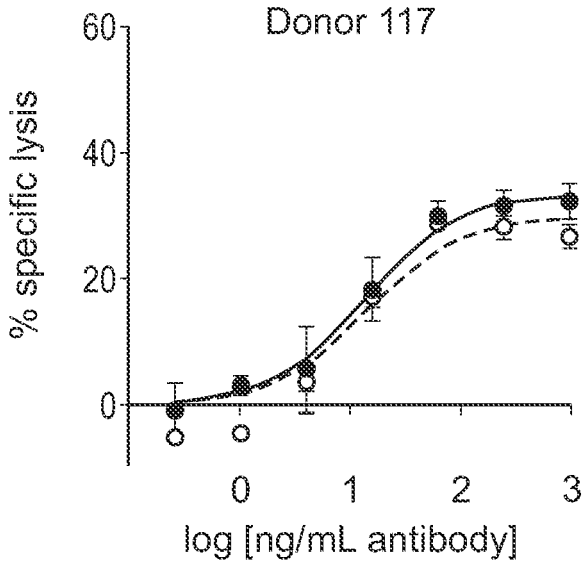


FIG. 21B

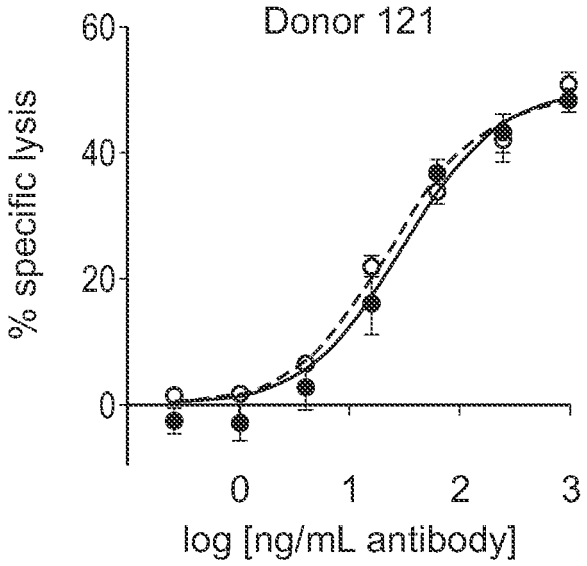


FIG. 21C

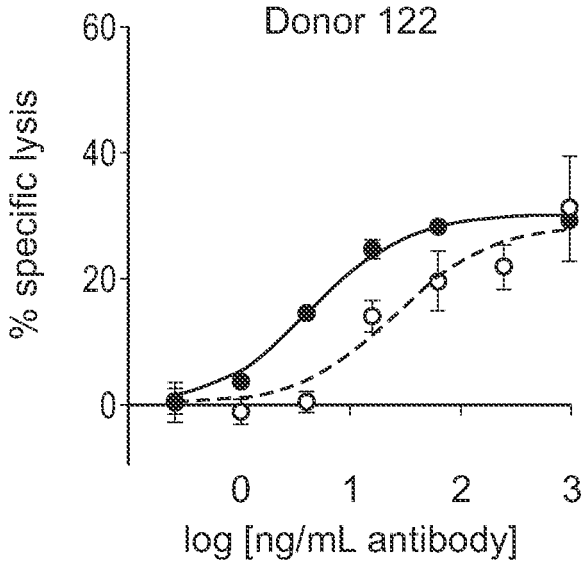


FIG. 21D

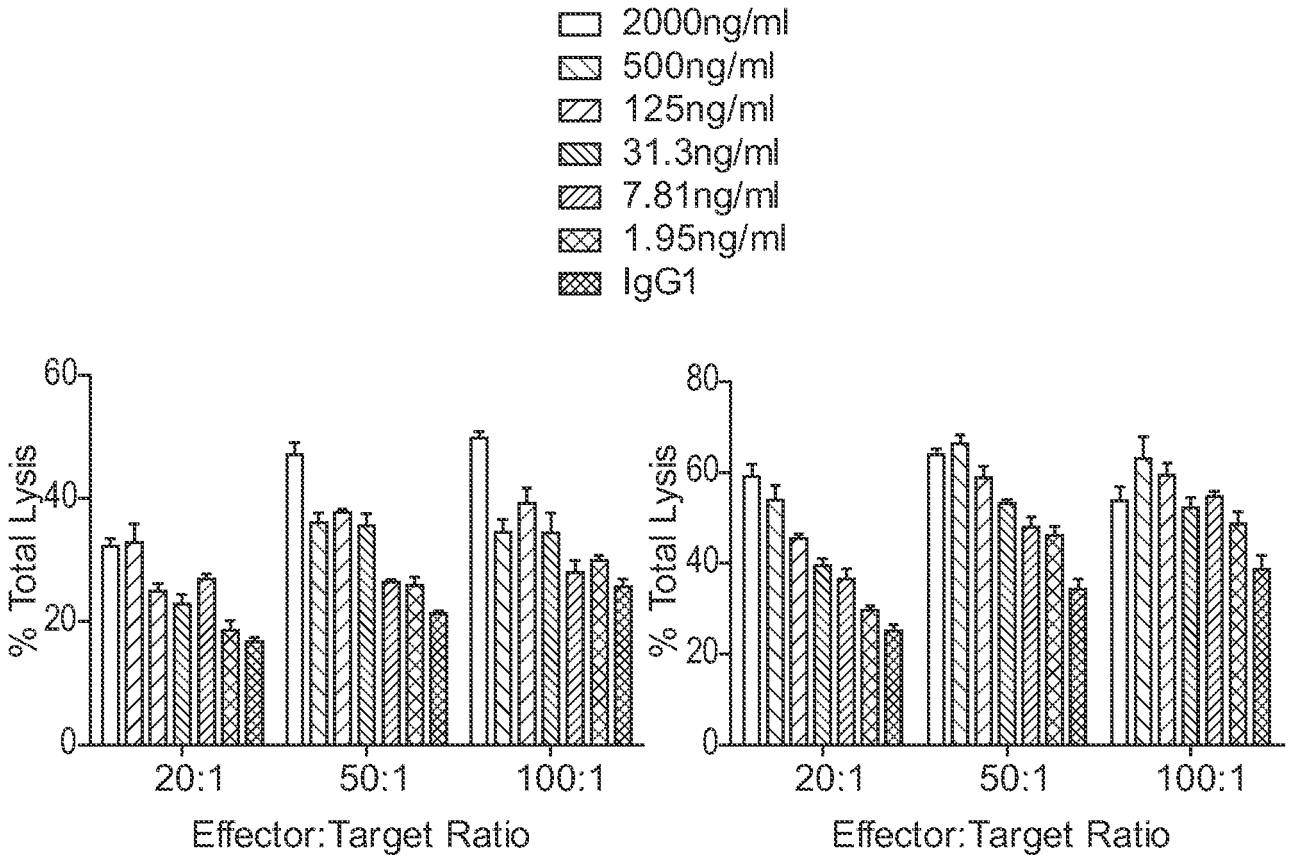


FIG. 22A

FIG. 22B

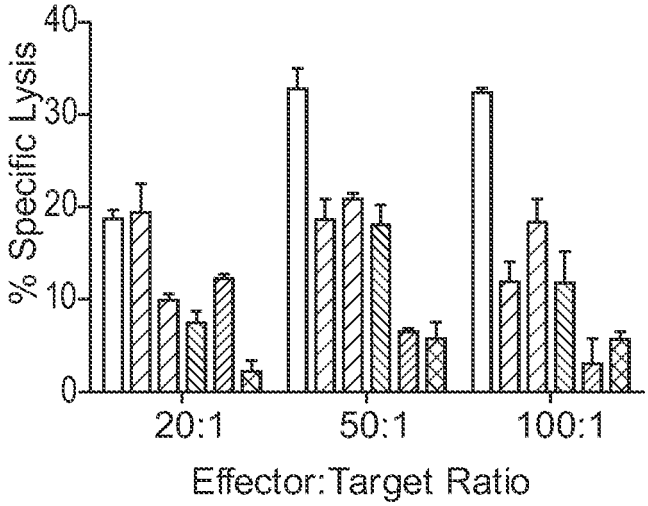


FIG. 23A

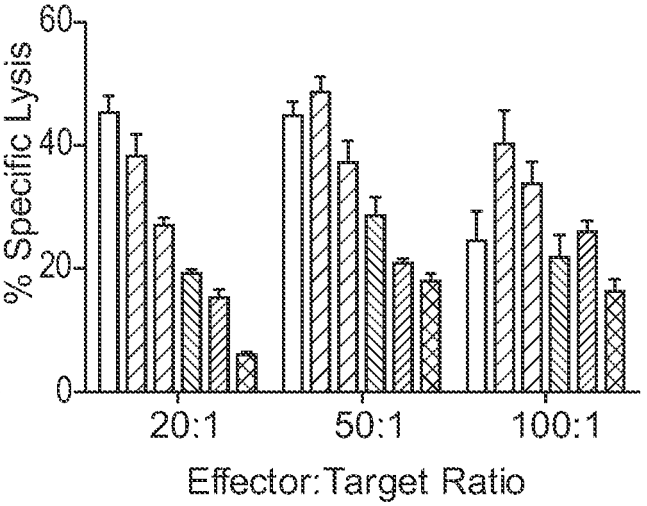


FIG. 23B

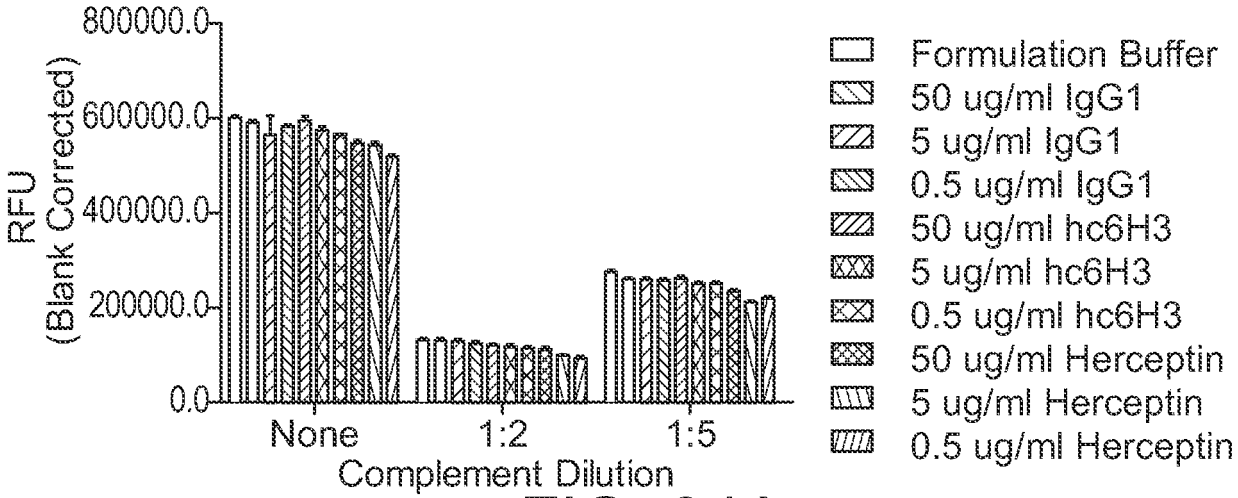


FIG. 24A

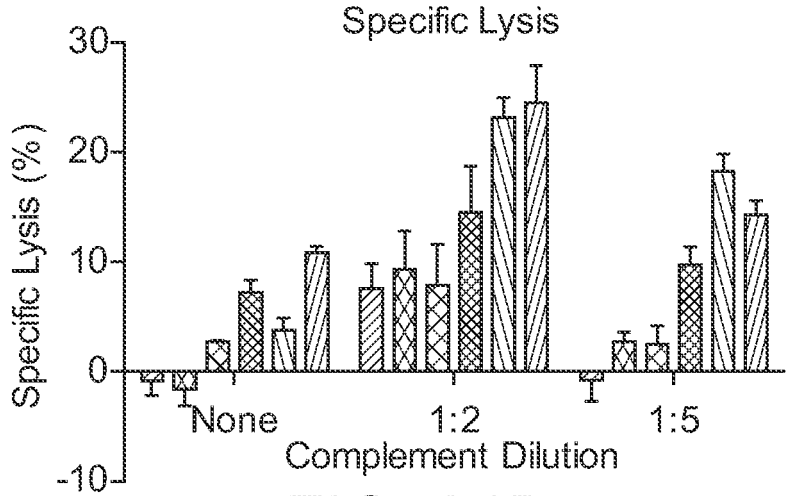


FIG. 24B

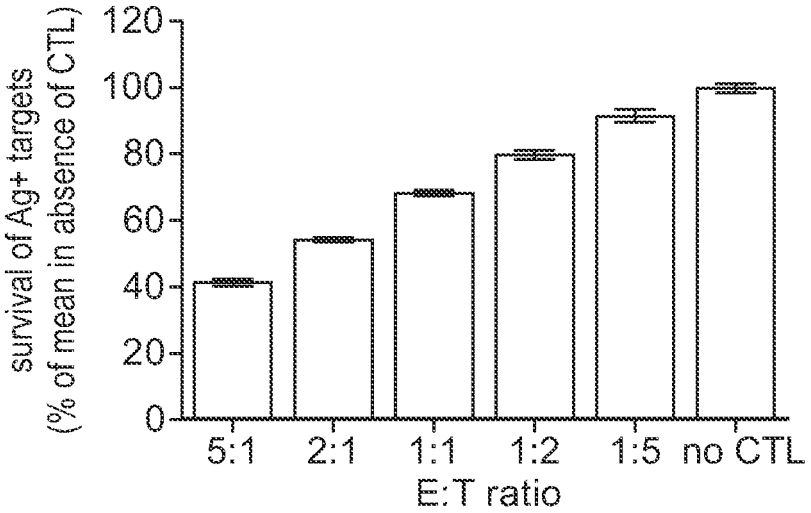


FIG. 25

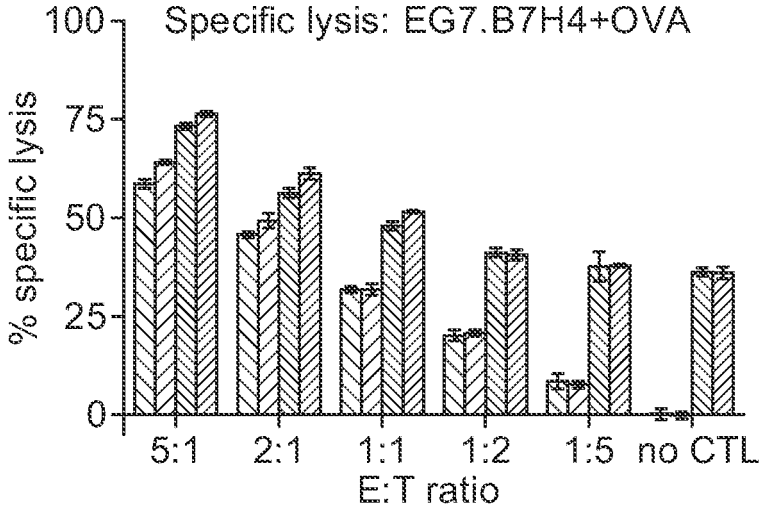


FIG. 26

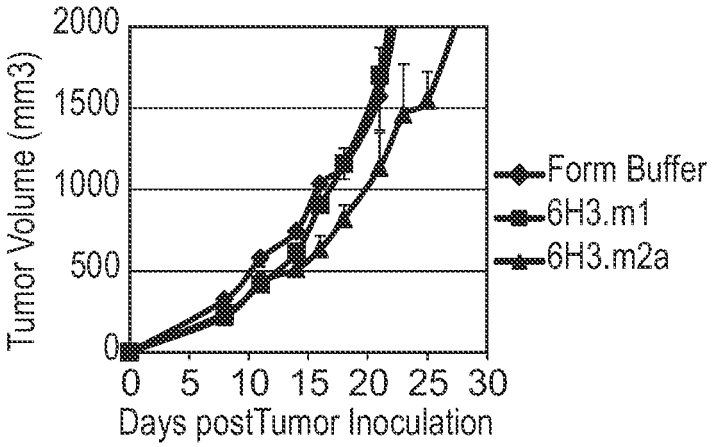


FIG. 27A

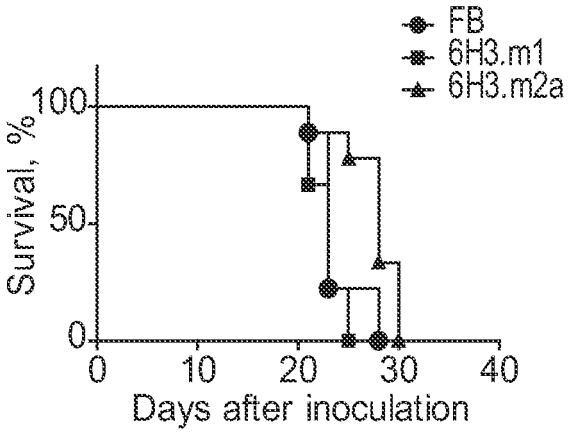


FIG. 27B

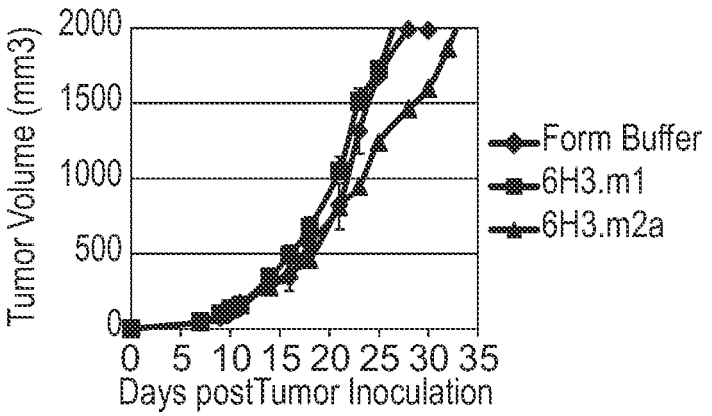


FIG. 28A

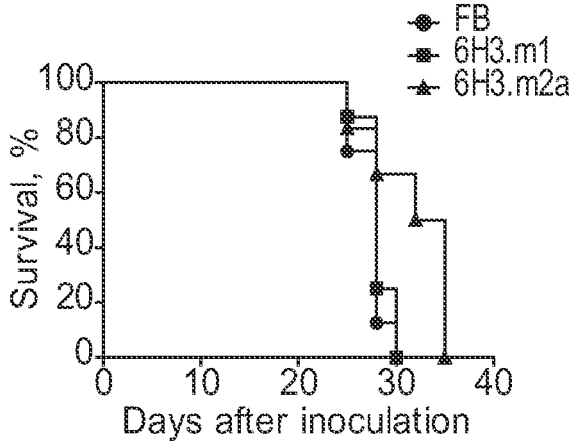


FIG. 28B

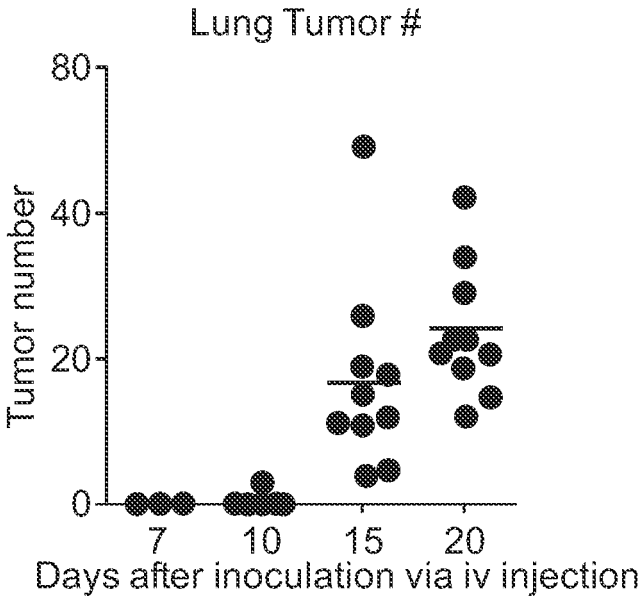


FIG. 29A

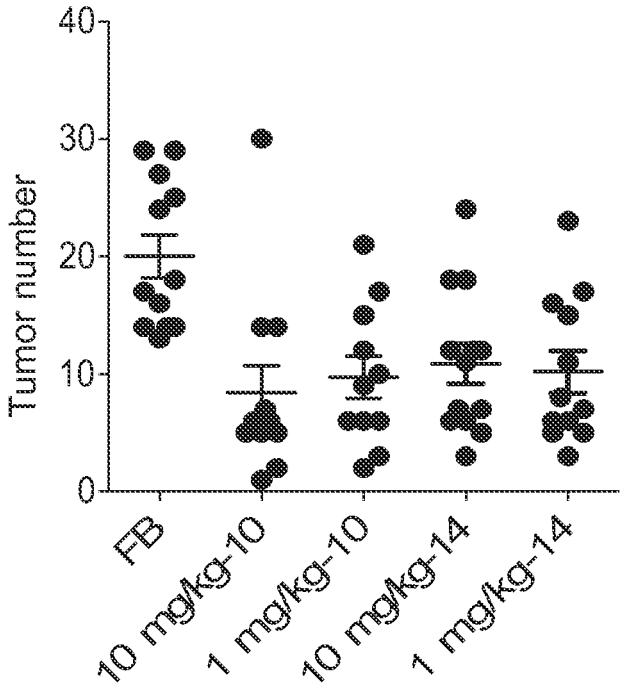


FIG. 29B

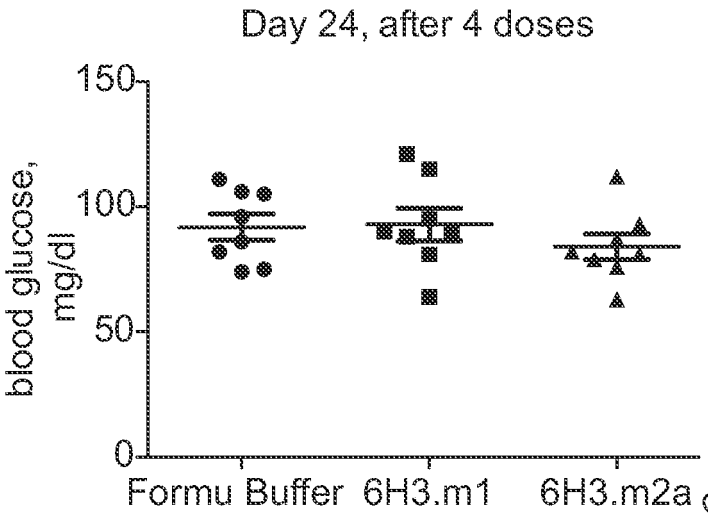


FIG. 30

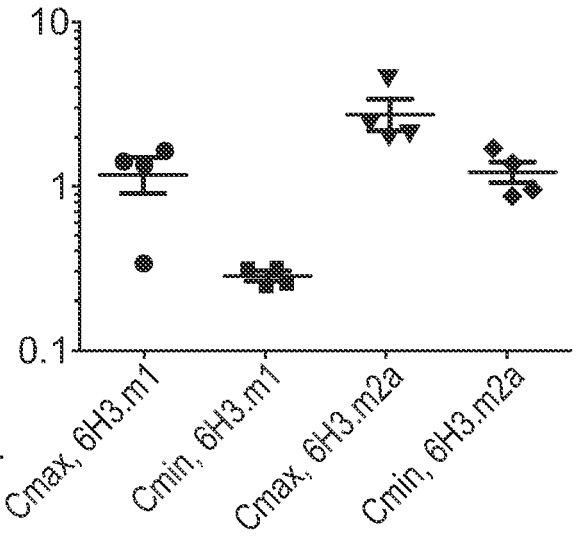


FIG. 31

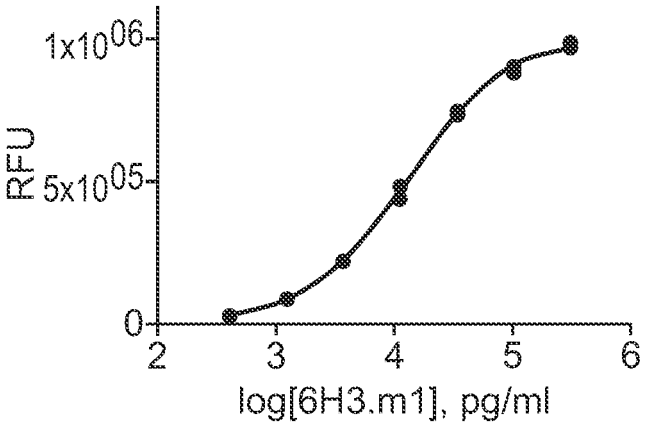


FIG. 32A

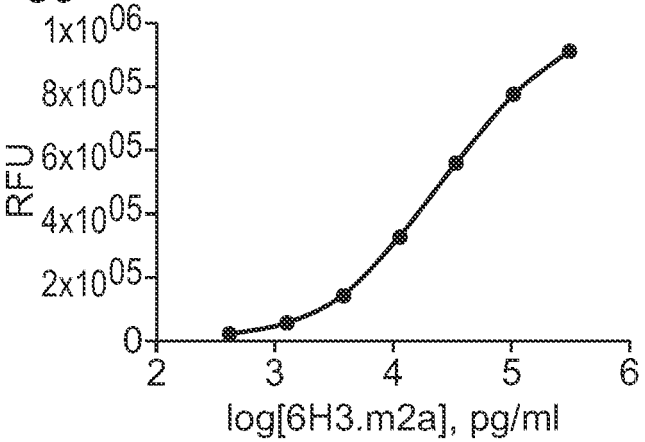


FIG. 32B

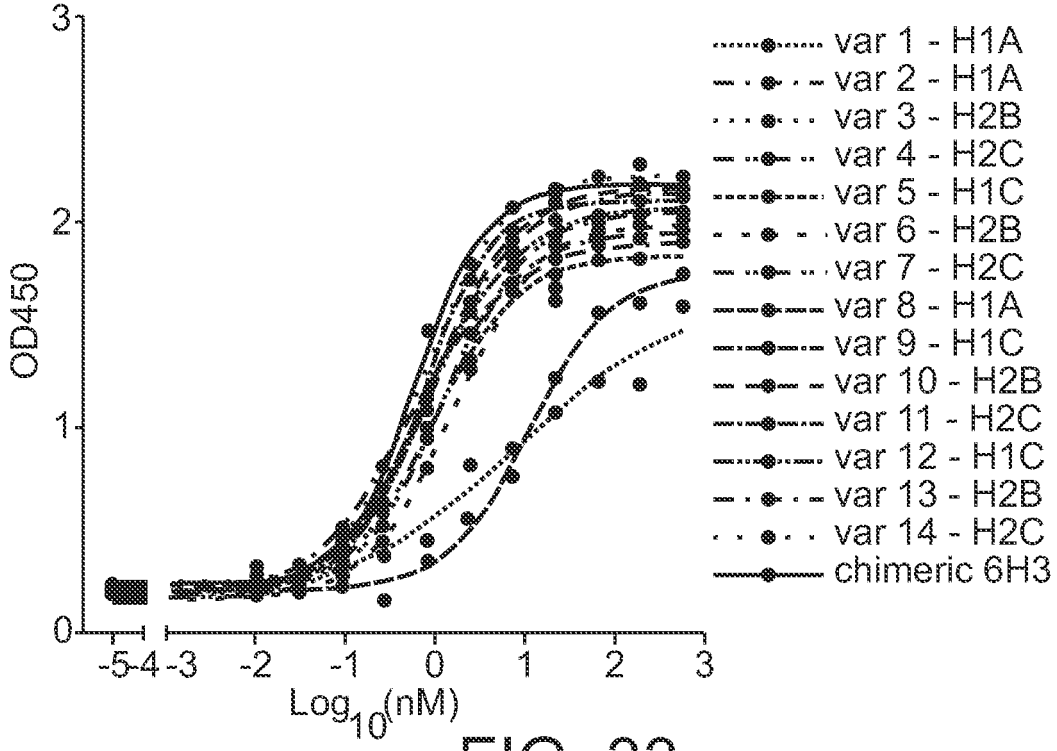


FIG. 33

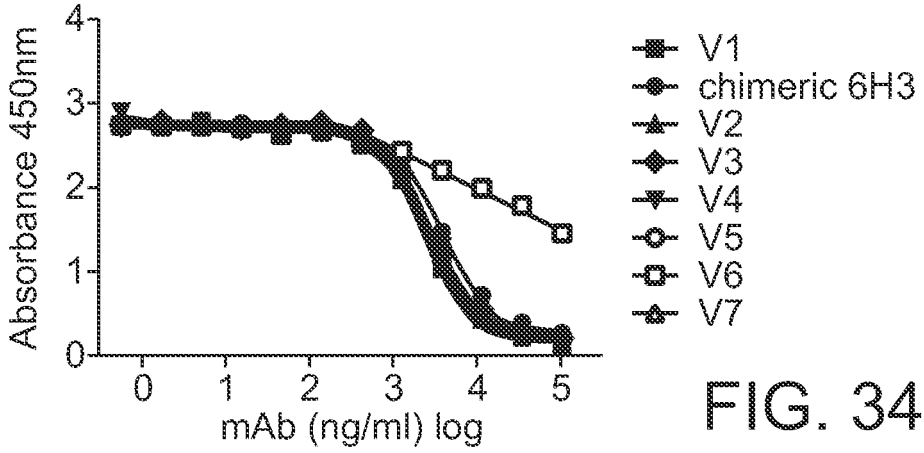


FIG. 34A

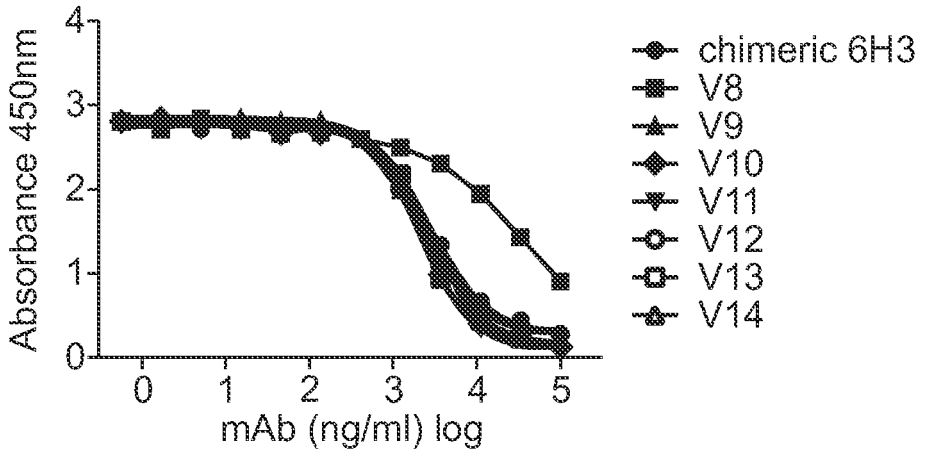


FIG. 34B

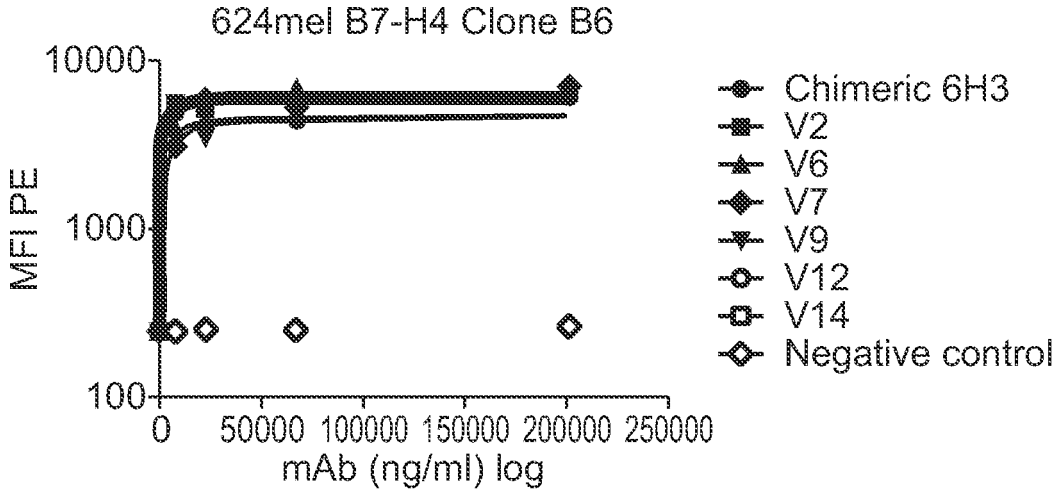


FIG. 35A

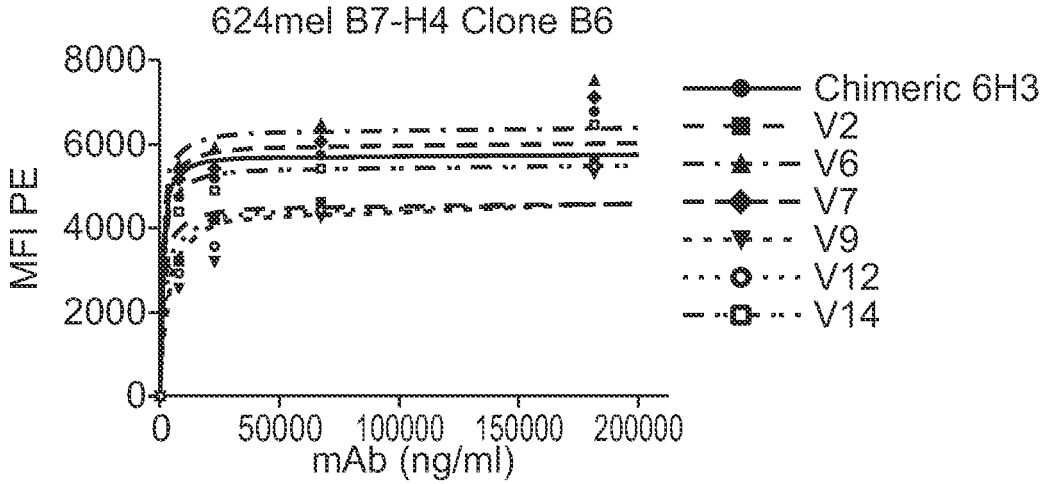


FIG. 35B

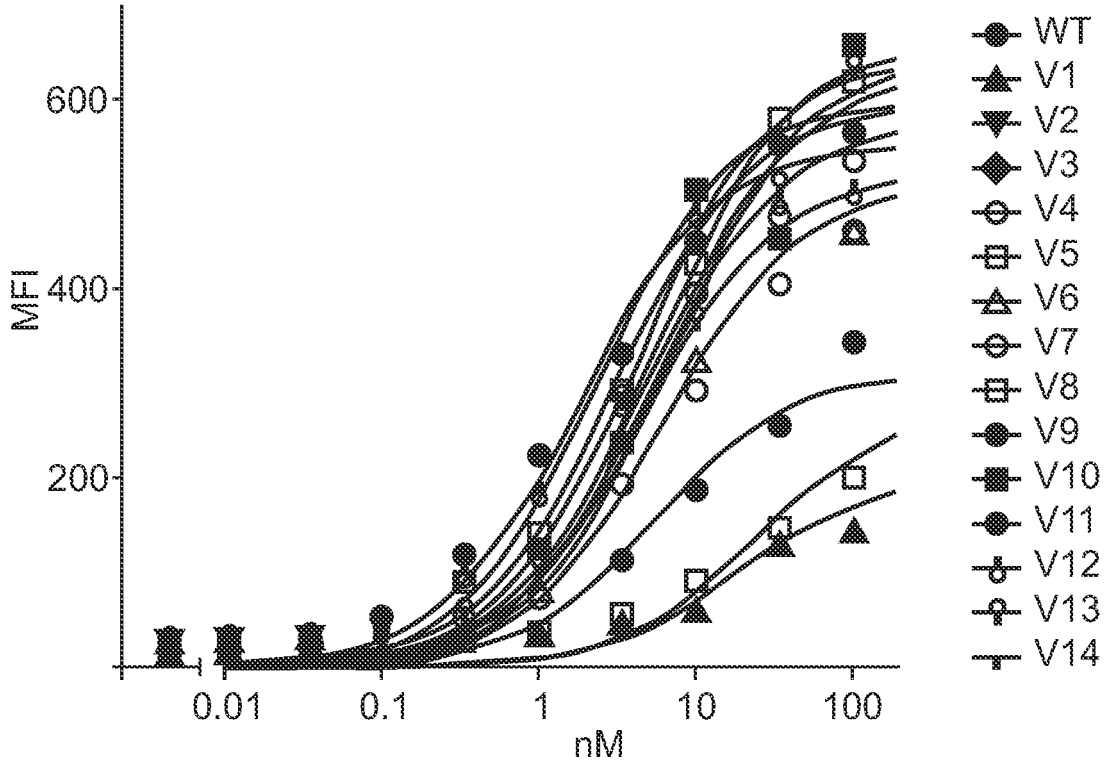

MFI
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400
200
0.01
0.1
1
10
100
nM
WT
V1
V2
V3
V4
V5
V6
V7
V8
V9
V10
V11
V12
V13
V14

FIG. 36

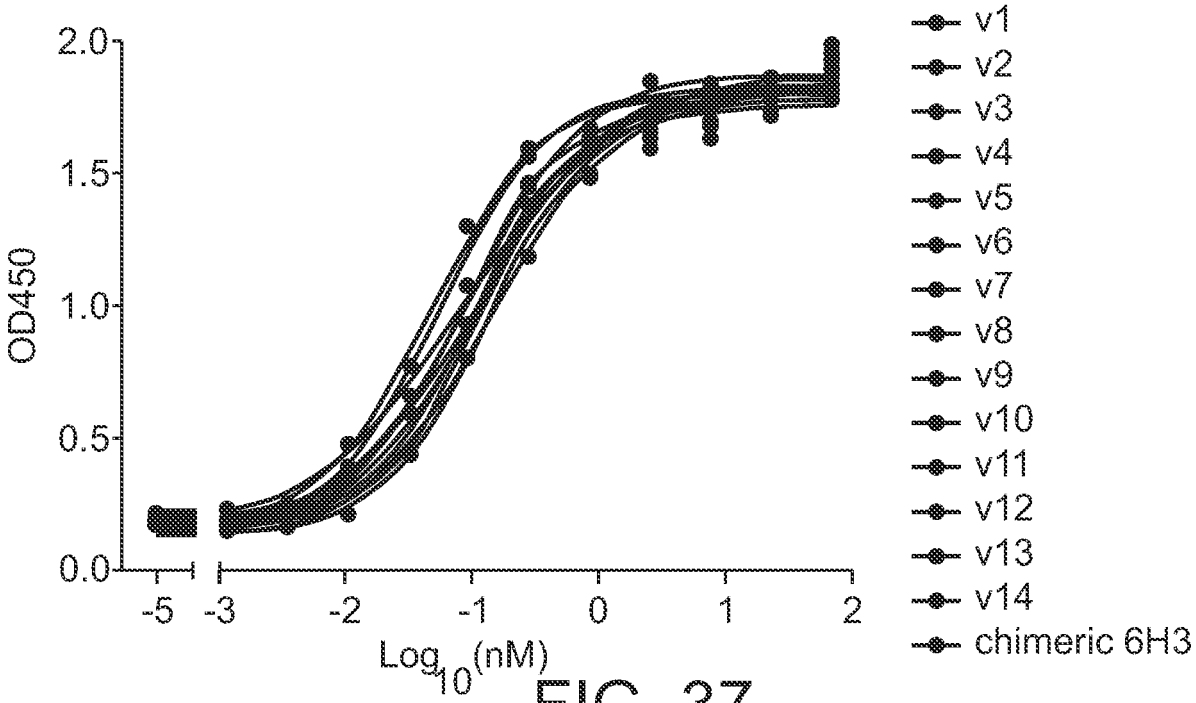

OD450
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1.0
0.5
0.0
-5
-3
-2
-1
0
1
2
Log10(nM)
v1
v2
v3
v4
v5
v6
v7
v8
v9
v10
v11
v12
v13
v14
chimeric 6H3

FIG. 37

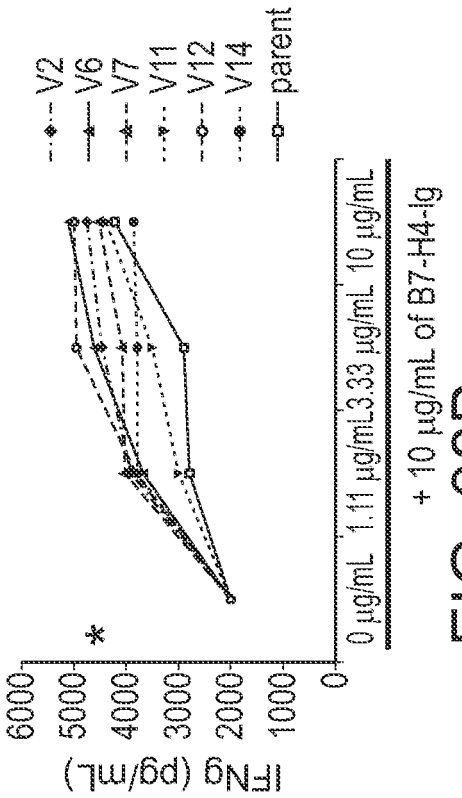


FIG. 38B

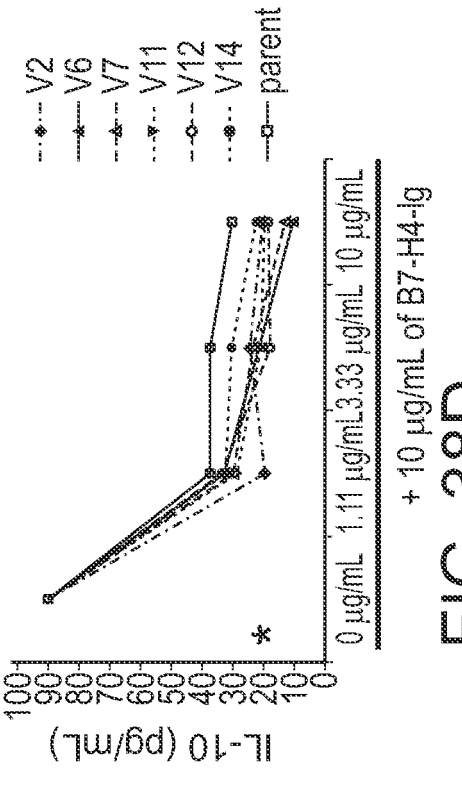


FIG. 38D

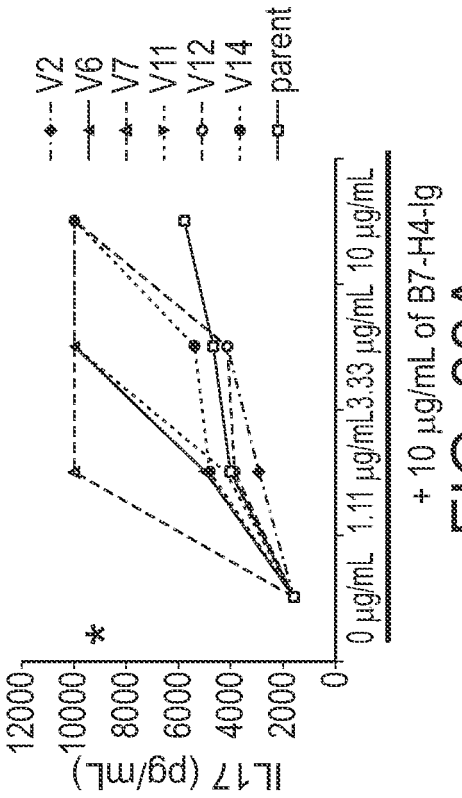


FIG. 38A

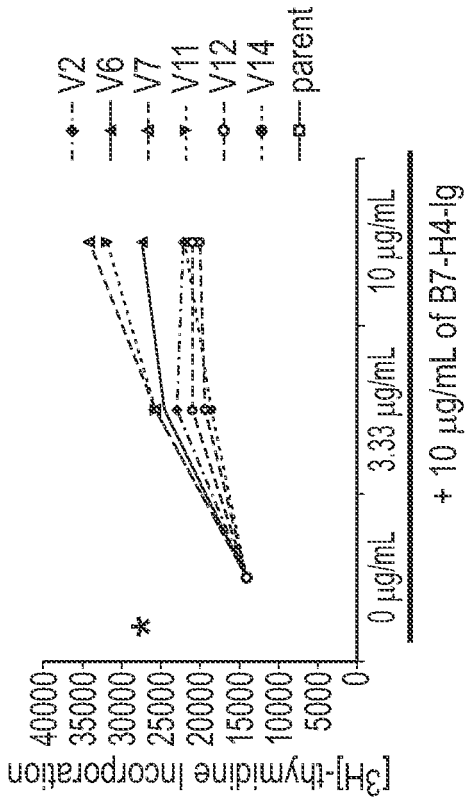


FIG. 38C