Figure 1

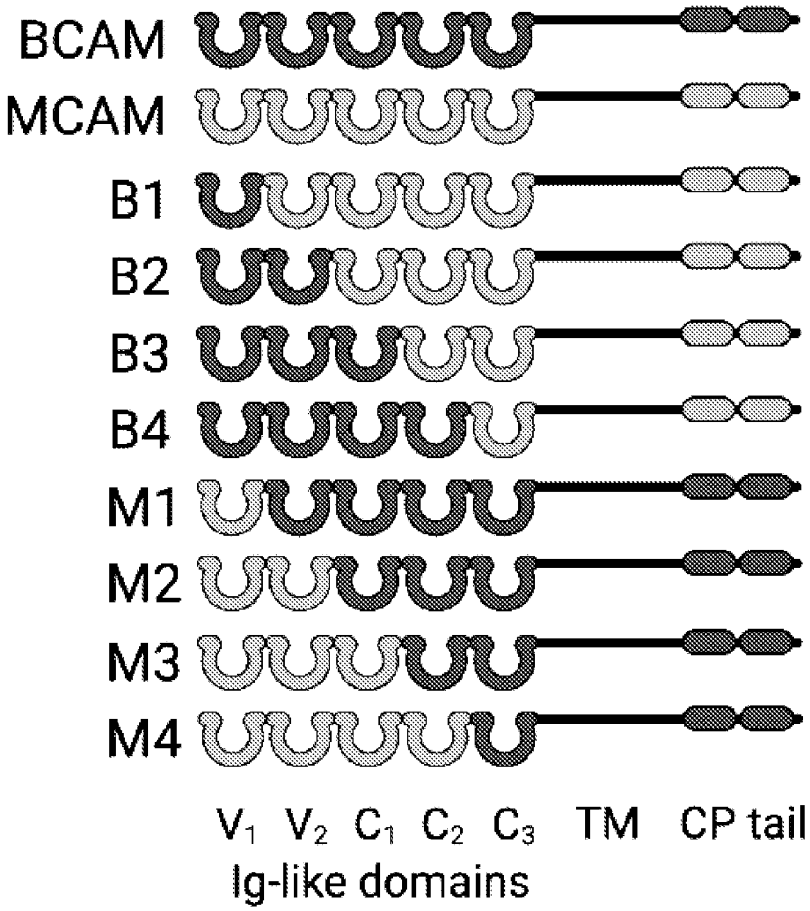

BCAM
MCAM
B1
B2
B3
B4
M1
M2
M3
M4
V1 V2 C1 C2 C3 TM CP tail
Ig-like domains

Figure 2A

929

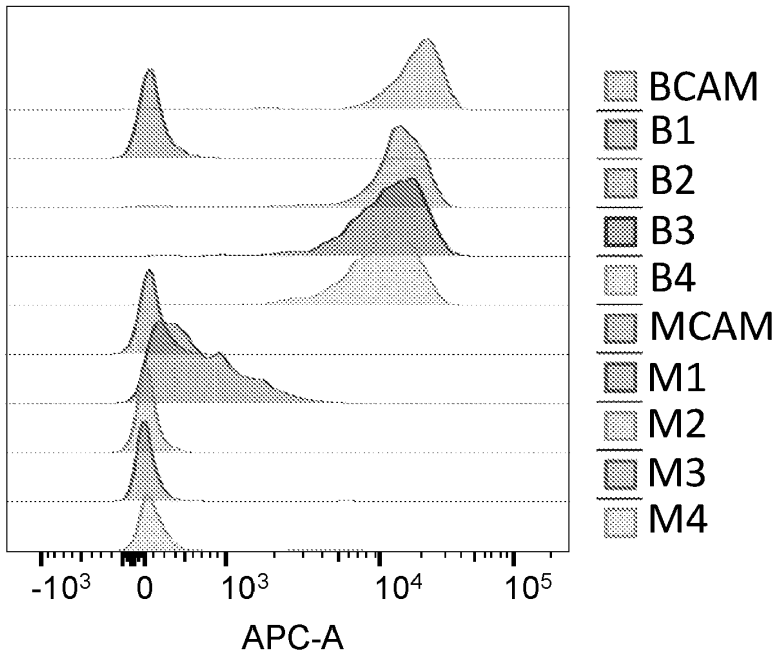


Figure 2B

477

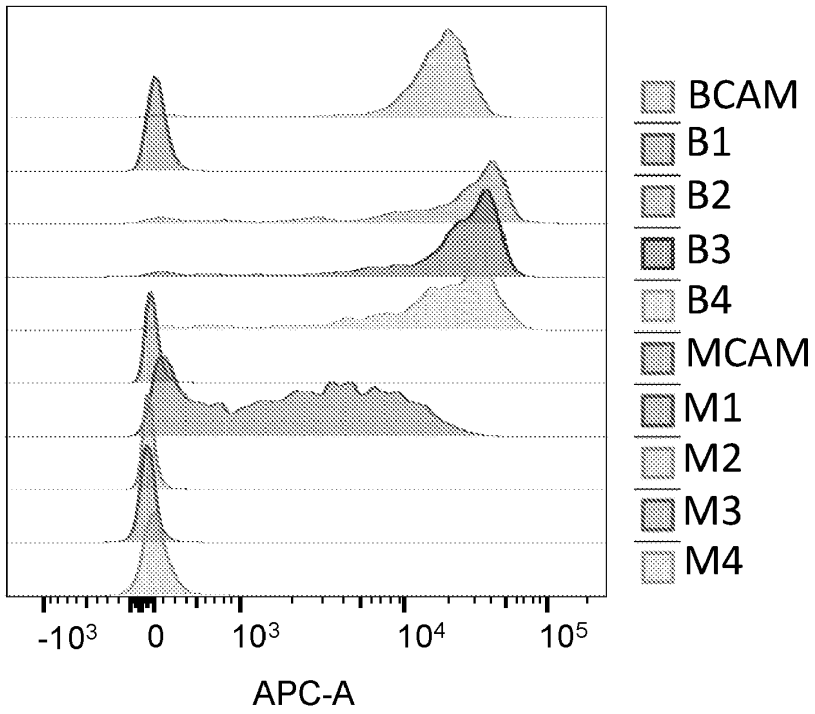


Figure 2C

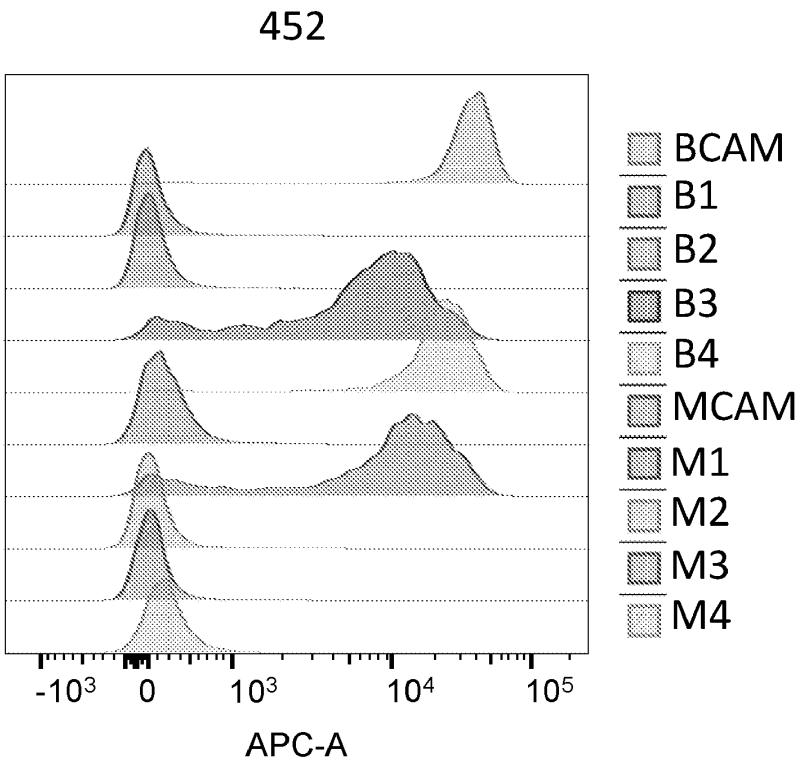


Figure 3A

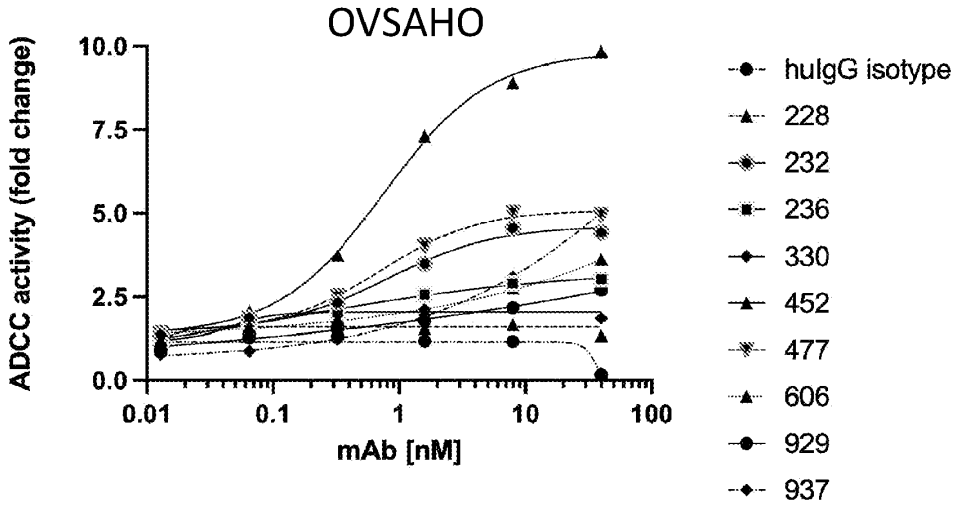


Figure 3B

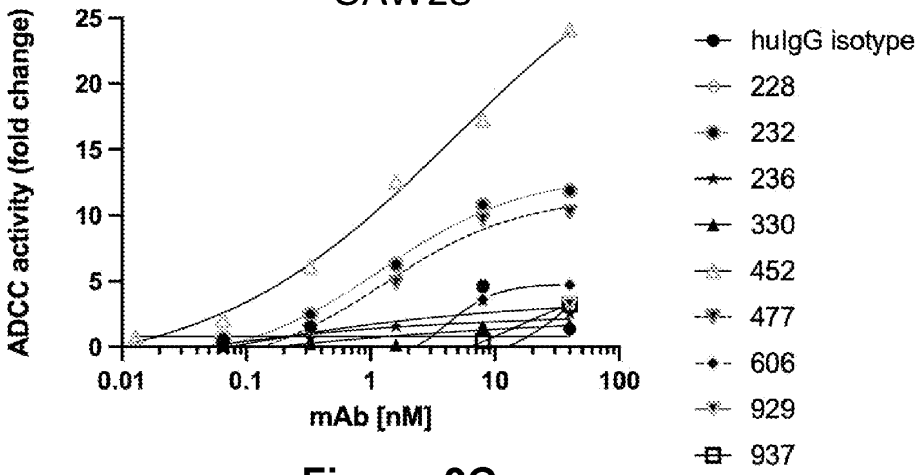


Figure 3C

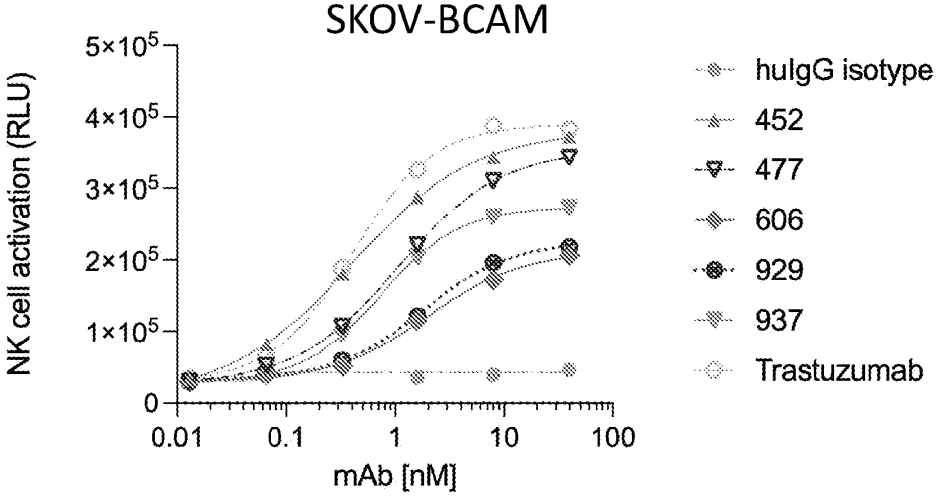


Figure 4

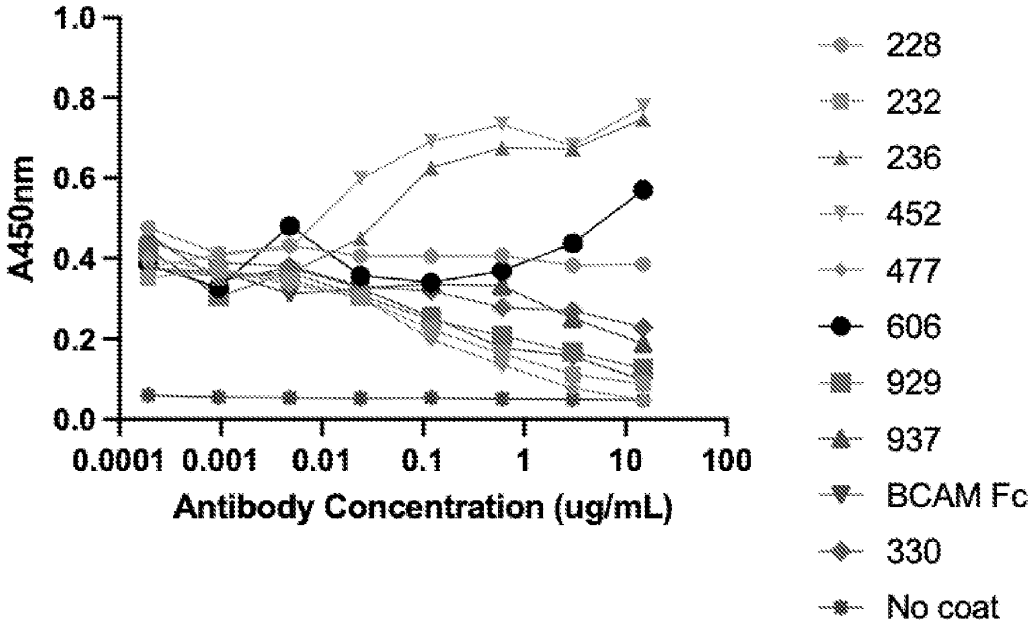

1.0
0.8
0.6
0.4
0.2
0.0
A450nm
0.0001
0.001
0.01
0.1
1
10
100
Antibody Concentration (ug/mL)
228
232
236
452
477
606
929
937
BCAM Fc
330
No coat

Figure 5A

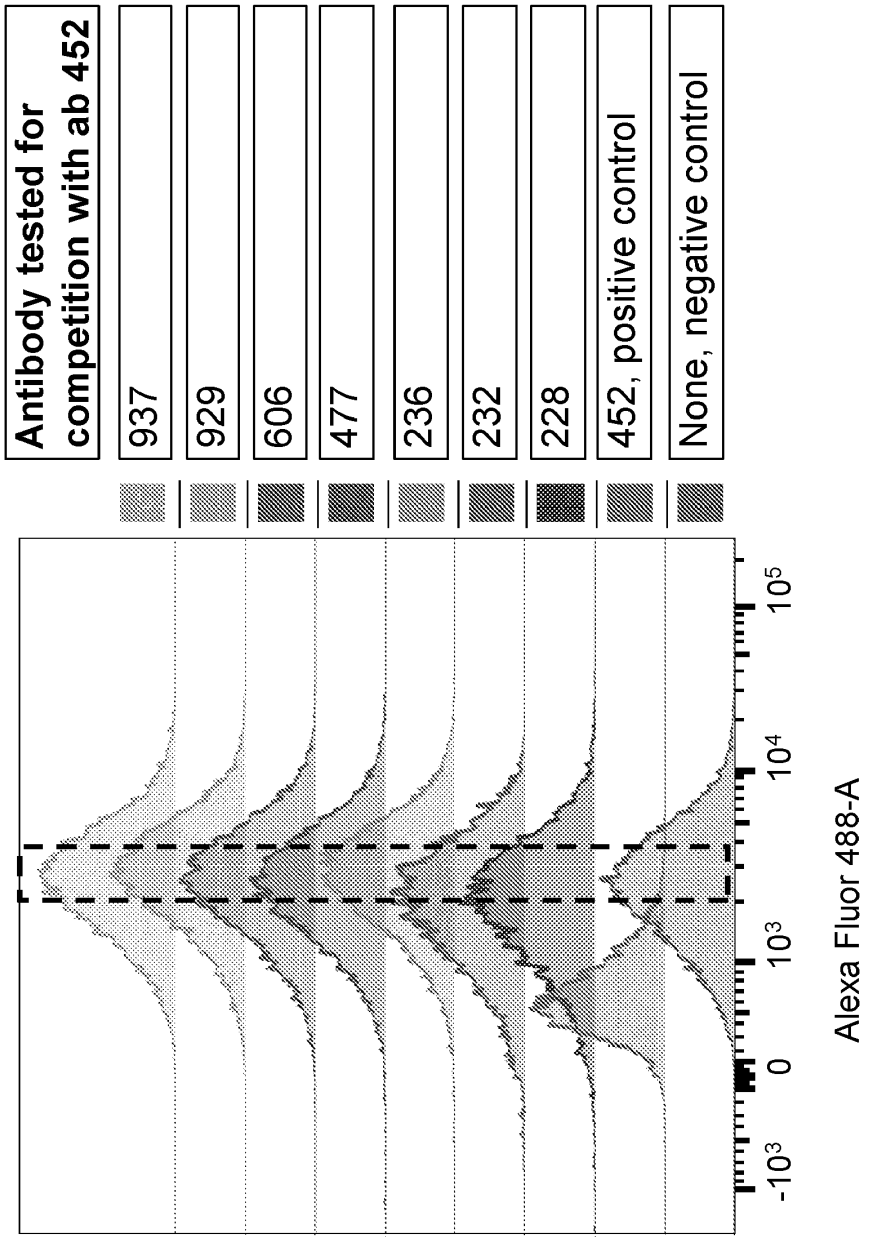

Antibody tested for competition with ab 452
937
929
606
477
236
232
228
452, positive control
None, negative control
-10^3
0
10^3
10^4
10^5
Alexa Fluor 488-A

Figure 5B

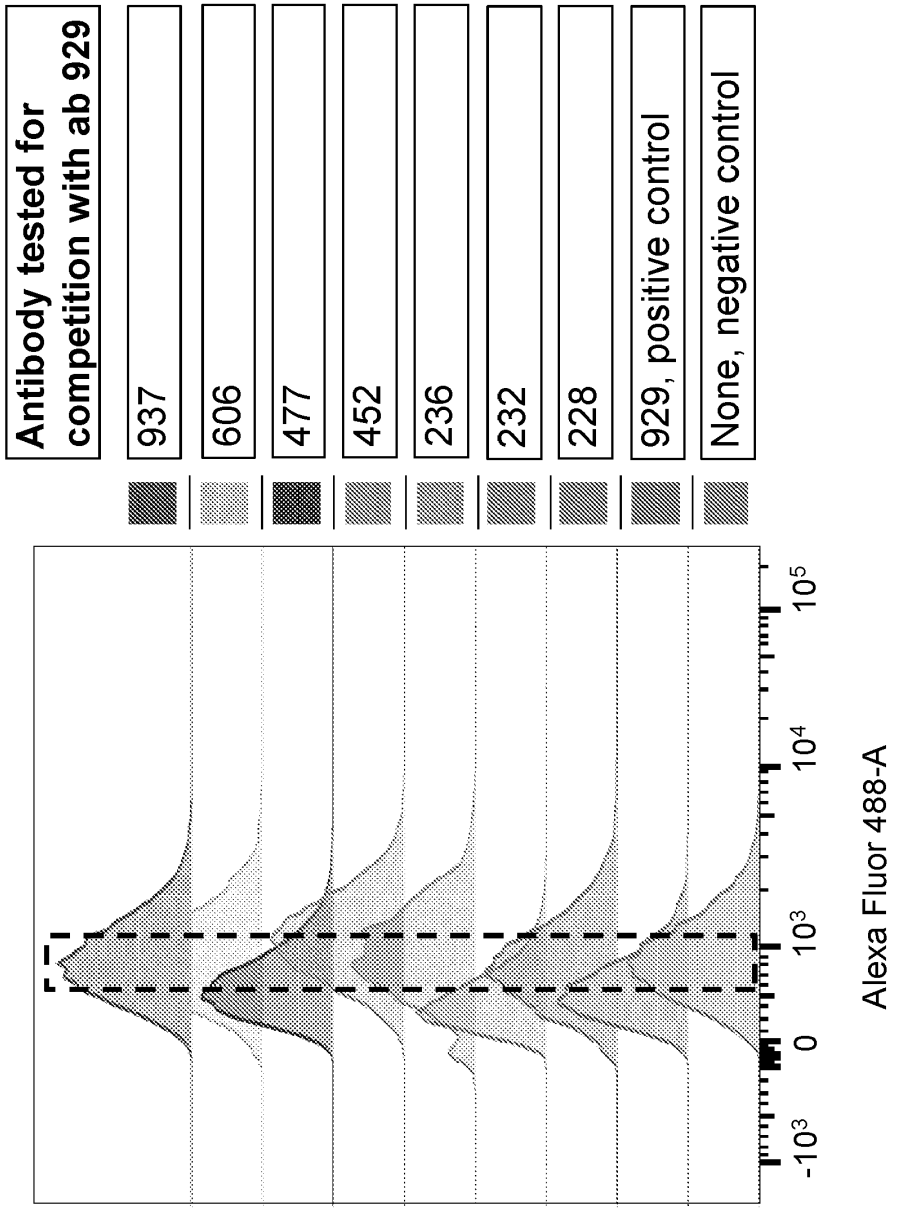

Antibody tested for competition with ab 929
937
606
477
452
236
232
228
929, positive control
None, negative control
-10^3
0
10^3
10^4
10^5
Alexa Fluor 488-A

Figure 5C

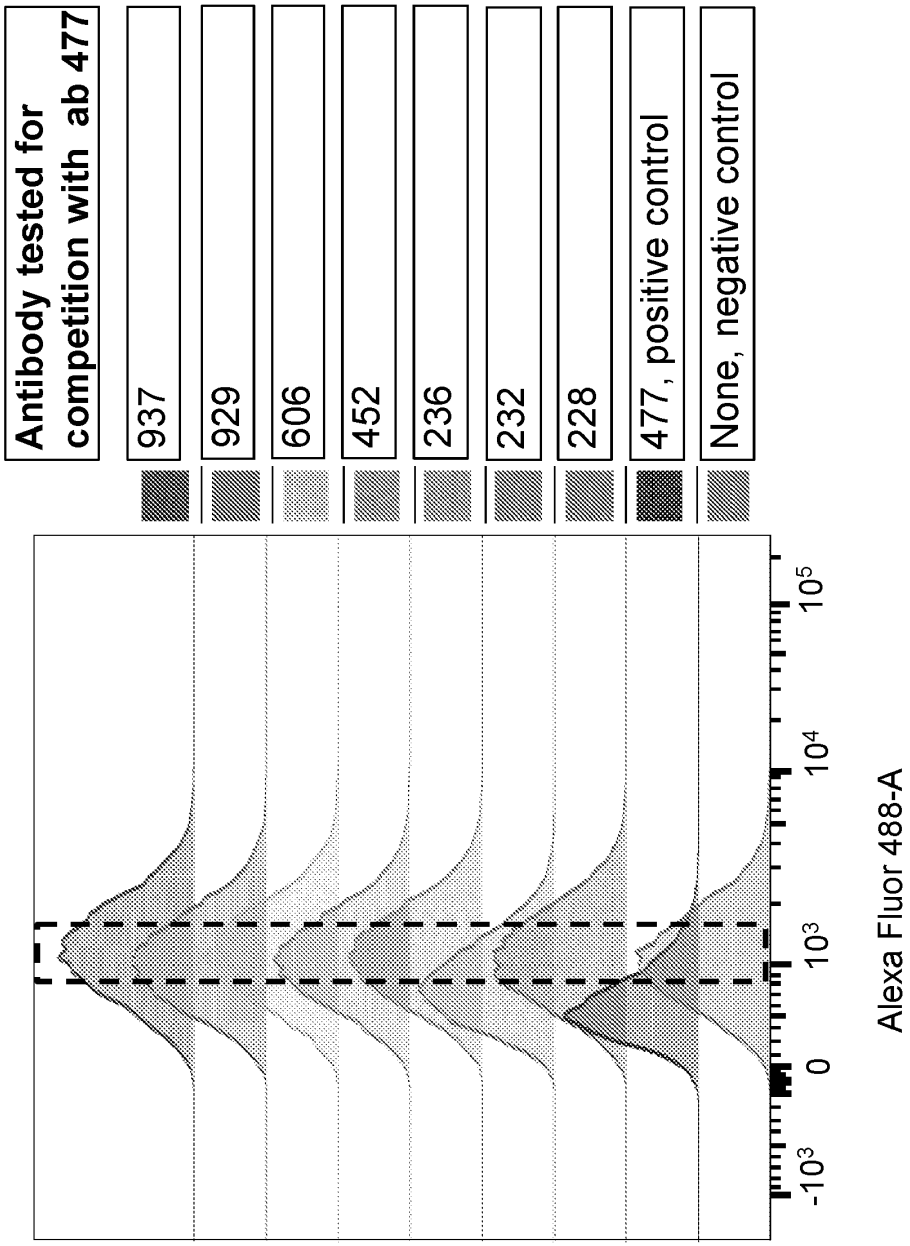

Antibody tested for competition with ab 477
937
929
606
452
236
232
228
477, positive control
None, negative control
-10^3
0
10^3
10^4
10^5
Alexa Fluor 488-A

Figure 6A

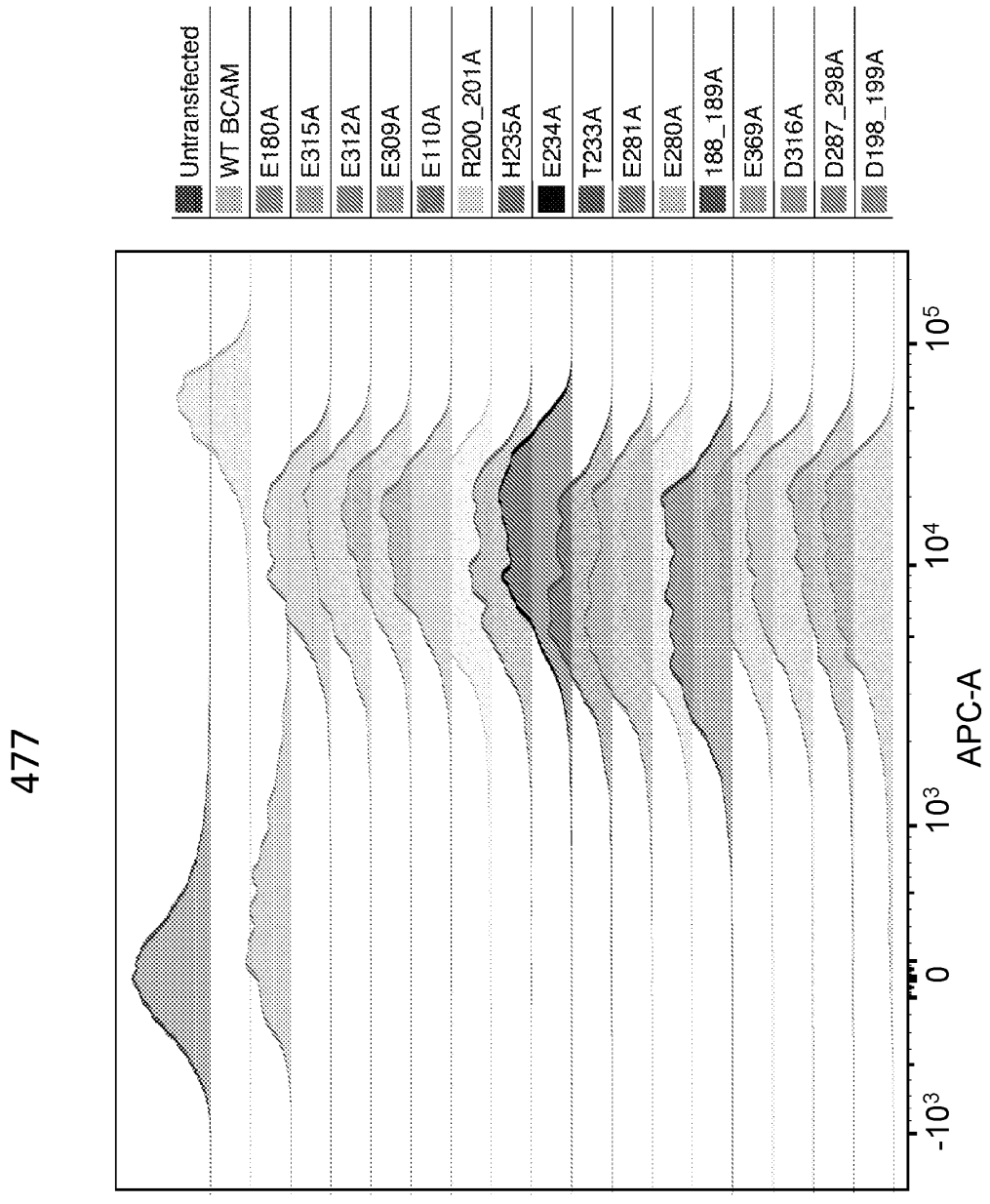

Untransfected
WT BCAM
E180A
E315A
E312A
E309A
E110A
R200_201A
H235A
E234A
T233A
E281A
E280A
188_189A
E369A
D316A
D287_298A
D198_199A
477
APC-A
-10^3
0
10^3
10^4
10^5

Figure 6B

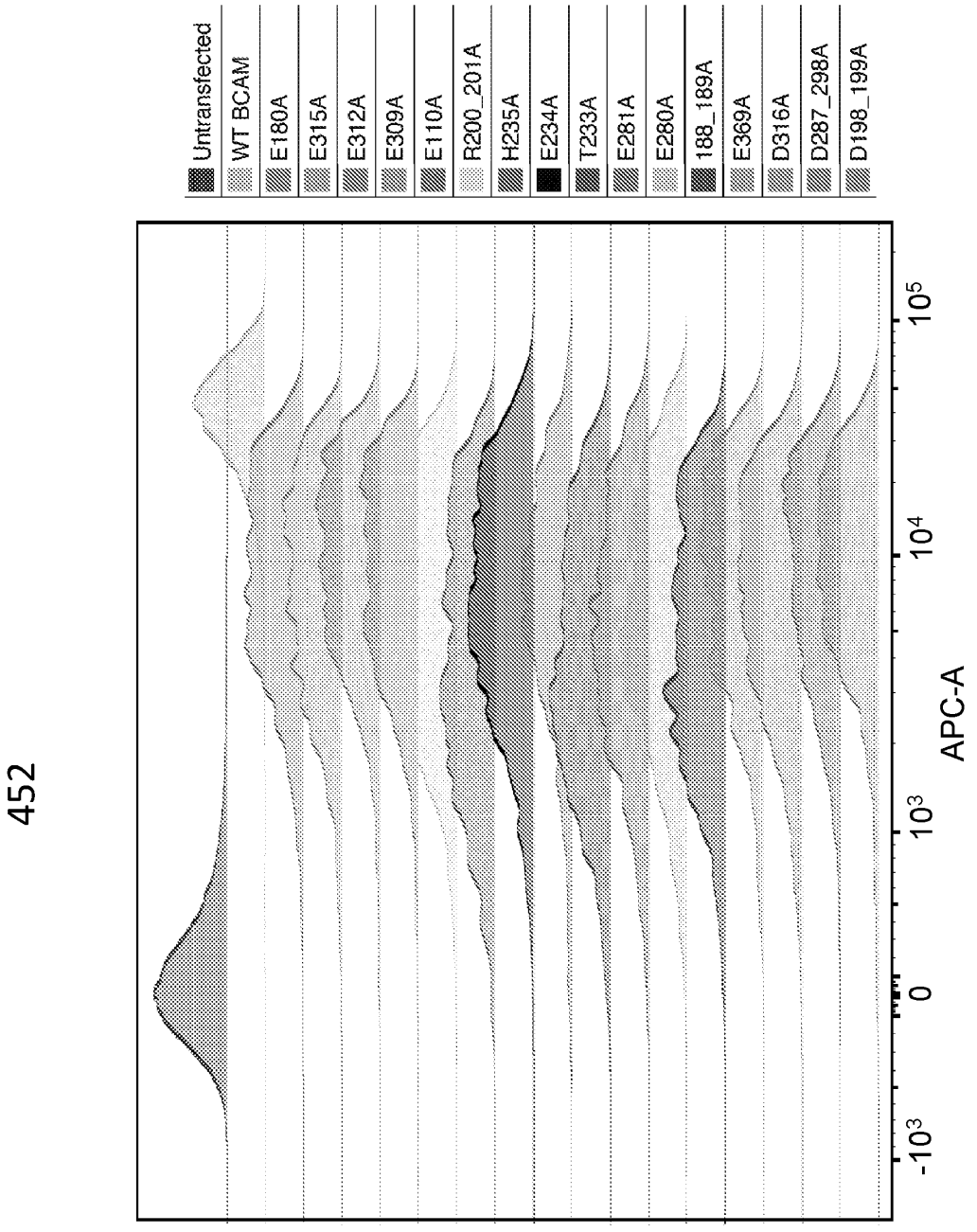

Untransfected
WT BCAM
E180A
E315A
E312A
E309A
E110A
R200_201A
H235A
E234A
T233A
E281A
E280A
188_189A
E369A
D316A
D287_298A
D198_199A
452
APC-A
-10^3
0
10^3
10^4
10^5

Figure 6C

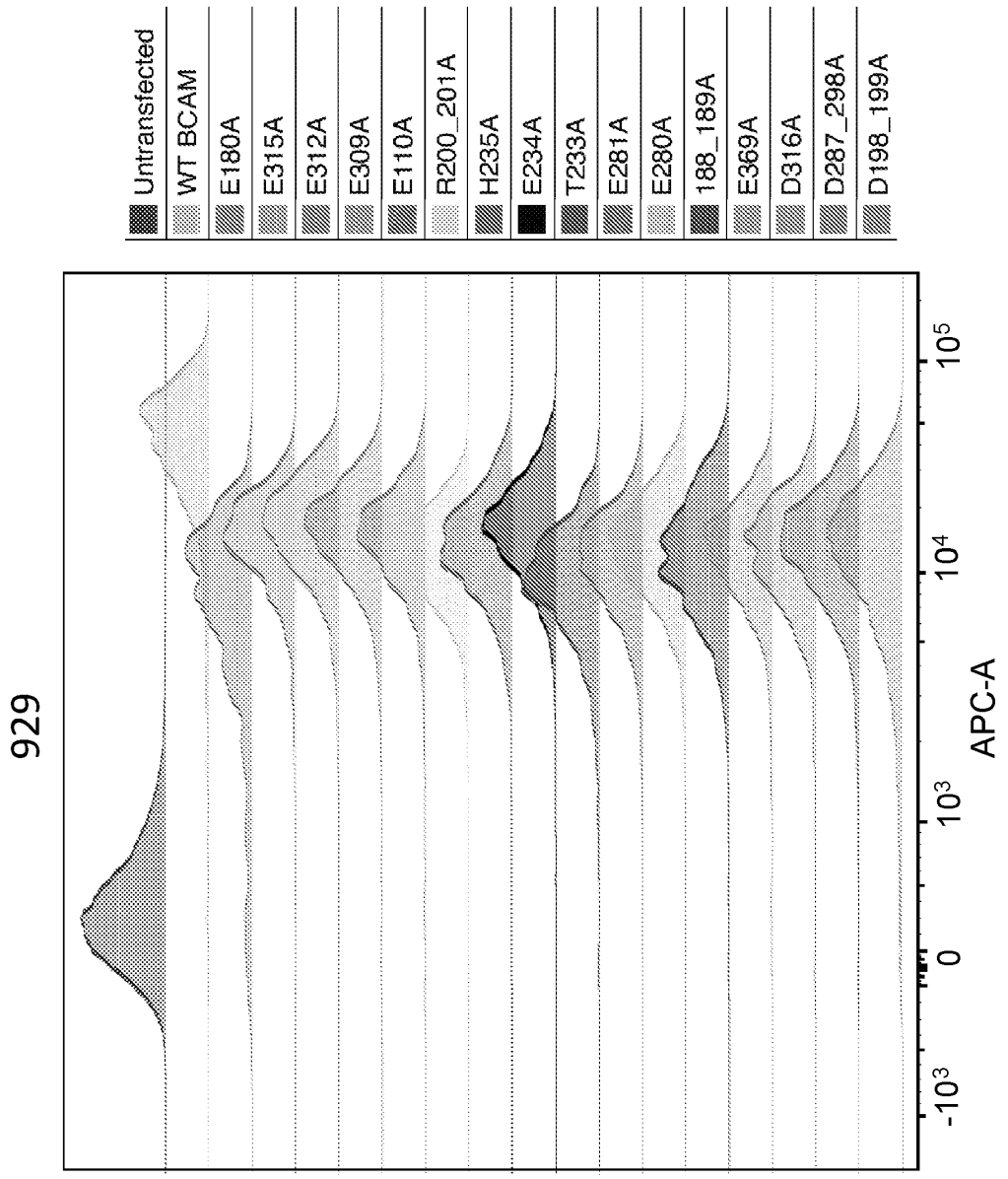

Untransfected
WT BCAM
E180A
E315A
E312A
E309A
E110A
R200_201A
H235A
E234A
T233A
E281A
E280A
188_189A
E369A
D316A
D287_298A
D198_199A
929
APC-A
-10^3
0
10^3
10^4
10^5

Figure 7A

```
hBCAM     1    EVRLSVPPLVEVMRGKSVILDCTPTGTHDHYMLEWFLTDRSGARPRLASAEMQGSELQVTMHDTRGRSPPYQLDSQGRLVLAEAQVGDERDYVCVVRAGAAGTAEATARLNVFAKPEATE
cyno           ....................N.....A....V.............................................S.........................................
mouse          .LHV....R......EQ.A.....REHPE..V.....V.GT...H....V.P....FLG.V.-SL..V...EV..R....I.KV....G.......K......S...SSVR...T..D..

hBCAM     121  VSPNKGTLSVMEDSAQEIATCNSRNGNPAPKITWYRNGQRLEVPVEMNPEGYMTSRTVREASGLLSLTSTLYLRLRKDDRDASFHCAAHYSLPEGRHGRLDSPTFHLTLHYPTEHVQFWV
cyno           ..........................V....................K.........................................K.........................L
mouse          ...........DQF.......S.N....V.R.............M.V.QK..I.I.........Y..........H......N.......D..S.Q......H..R..........E...

hBCAM     241  GSPSTPAGWVREGDTVQLLCRGDGSPSPEYTLFRLQDEQEEVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTLELRVAYLDPLELSEGKVLSLPLNSSA-VVNCSVHGLP
cyno           ..........................................A.F.................................................................-..........
mouse          .....TE.......A.....Q.........SF..Q.GT...Q.....K......R.H.N...I..........DEE...V.K.K.H..........VPEE.FVF....ST.....AR...

hBCAM     360  TPALRWTKDSTPLGDGPMLSLSSITFDSNGTYVCEASLPTVPVLSRTQNFTLLVQGSPELKTAEIEPKADGSWREGDEVTLICSARGHPDPKLSWSQLGGSPAEPIPGRQGWVSSSLTLK
cyno           ..............................I.......................L...RA.......................T....E..............................
mouse          ..TV......VT.A.......Q.V....A...T....T....L.....S.Q.I...A....PN..M..SGN..T.....M.T.....F.E...T...R.DT....PFEGR..K....MV.


hBCAM     480  VTSALSRDGISCEASNPHGNKRHVFHFGTVSPQTSQA  516
cyno           ....................................  547
mouse          .......E.V......I..K.G......S.A...A..  541
```

Figure 7B

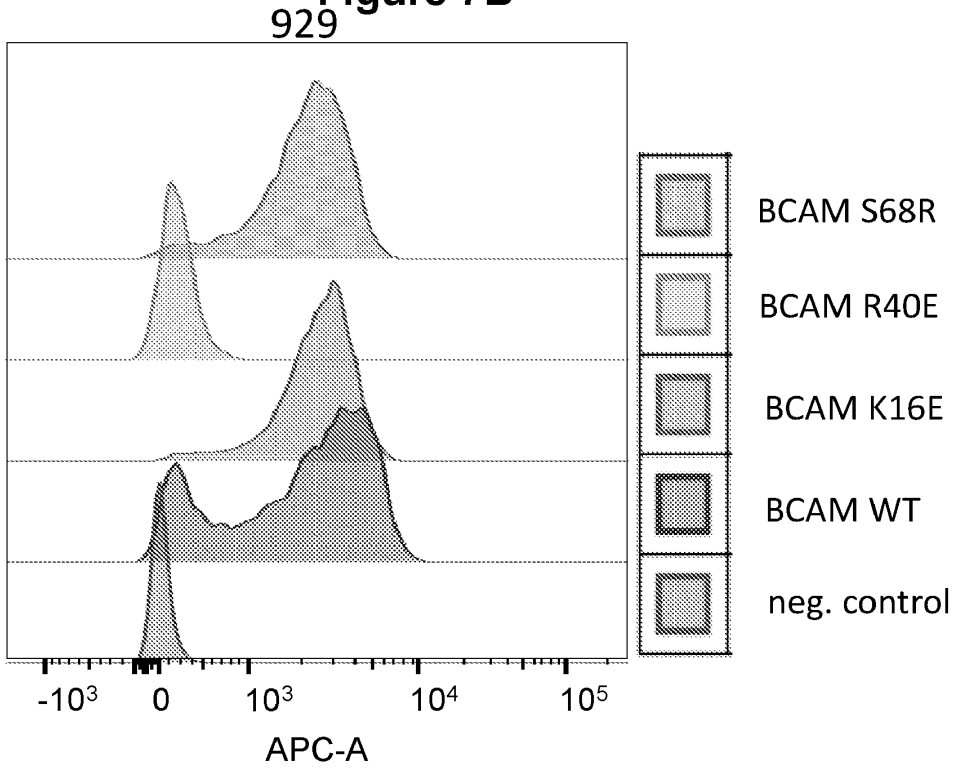
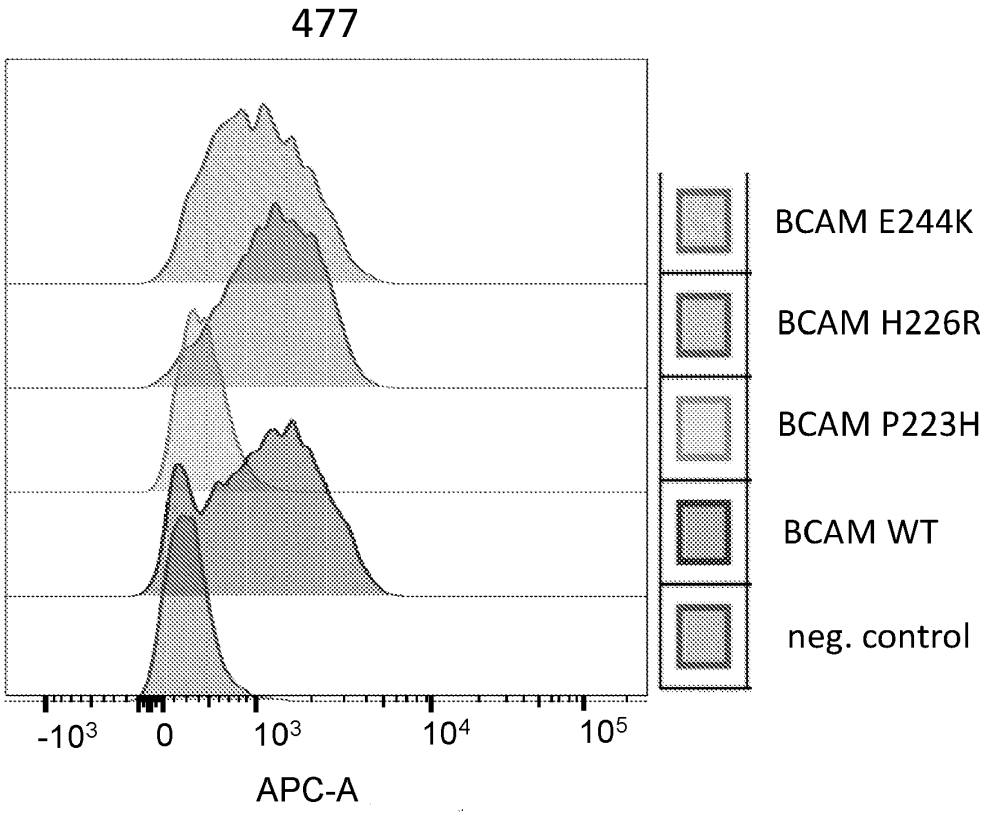


Figure 7C



14/26
Figure 8

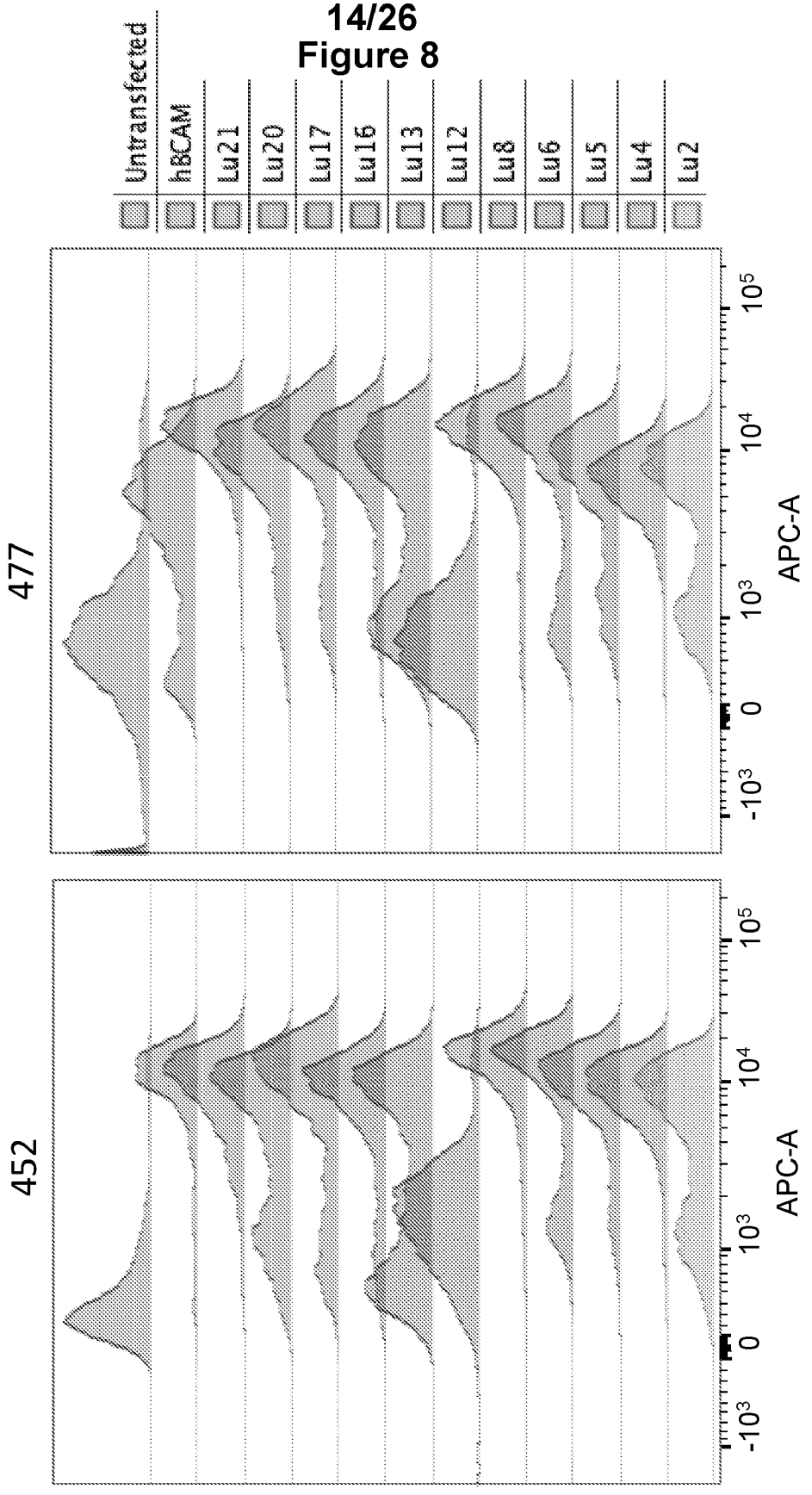


Figure 9A

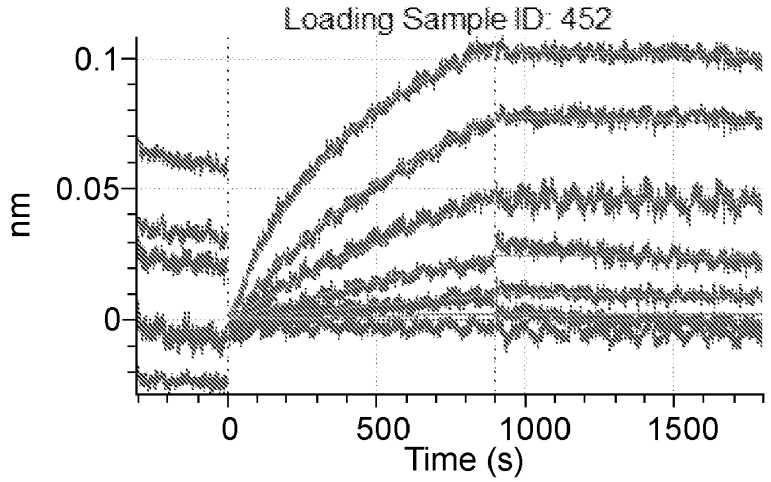


Figure 9B

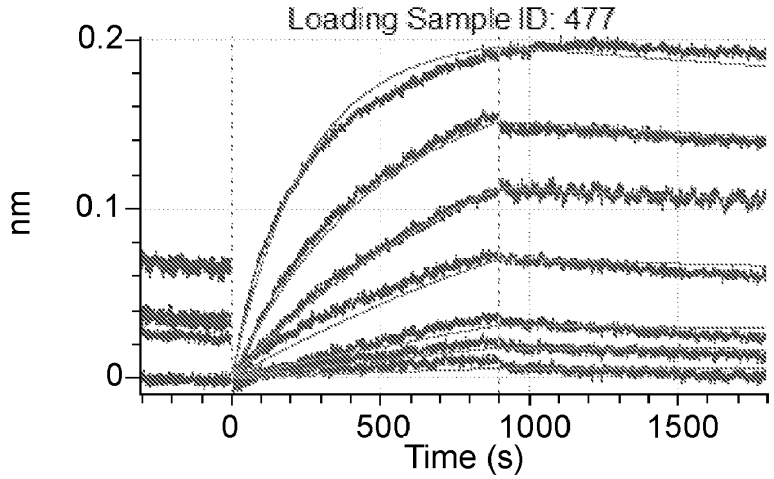


Figure 9C

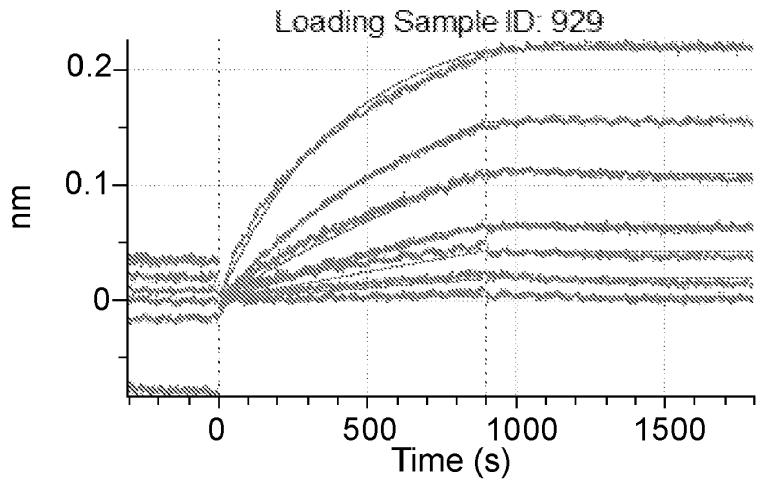


Figure 10A

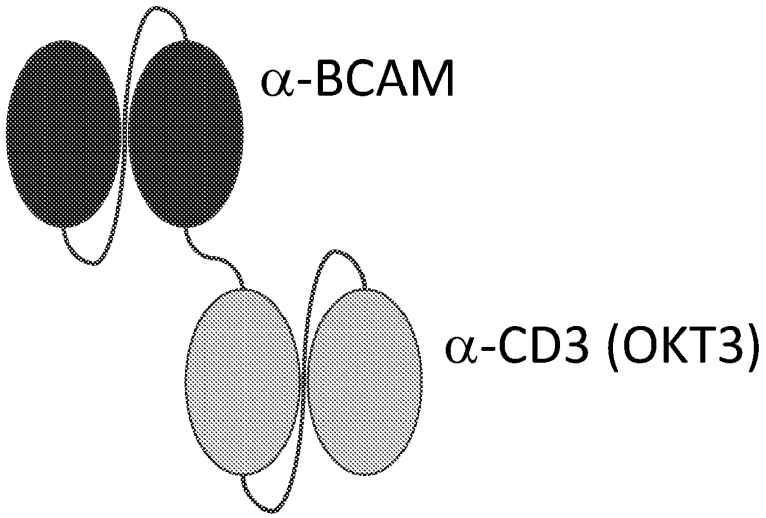


Figure 10B

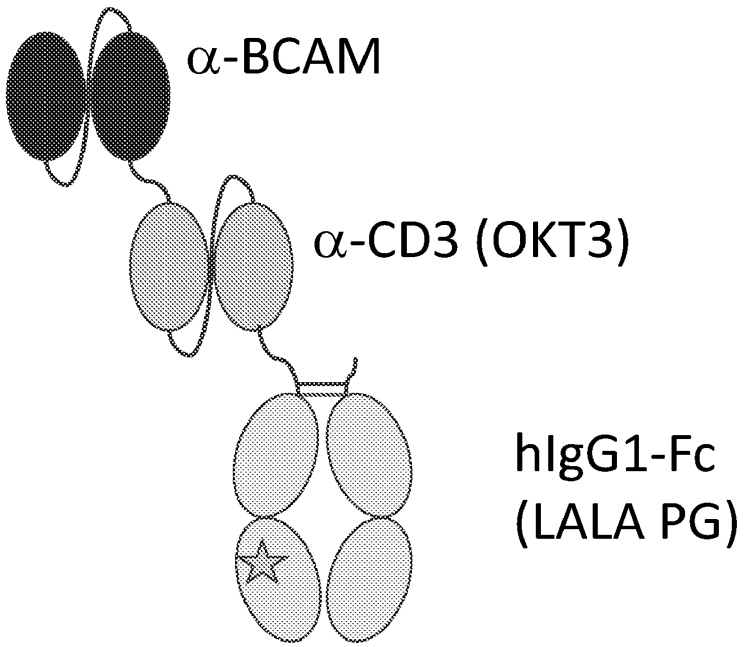


Figure 11A

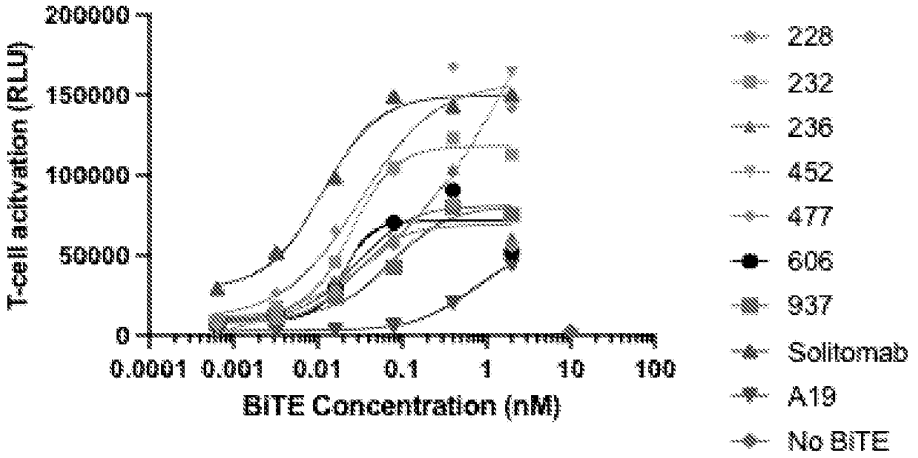


Figure 11B

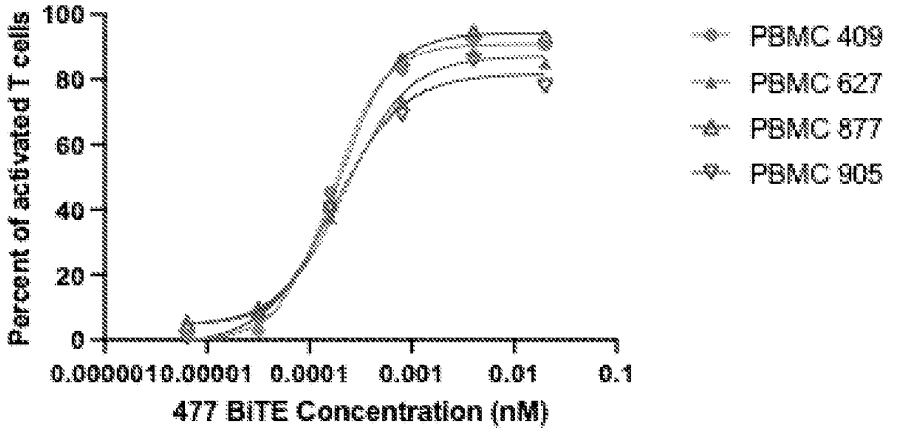


Figure 11C

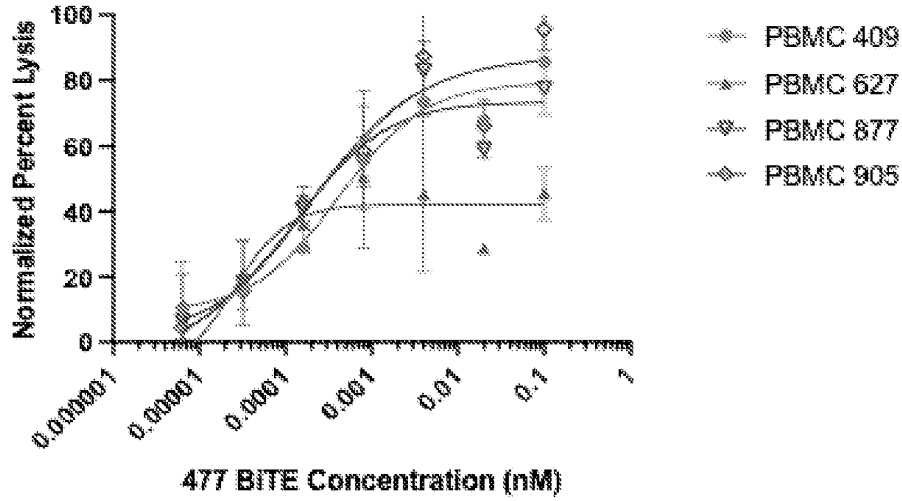


Figure 12A

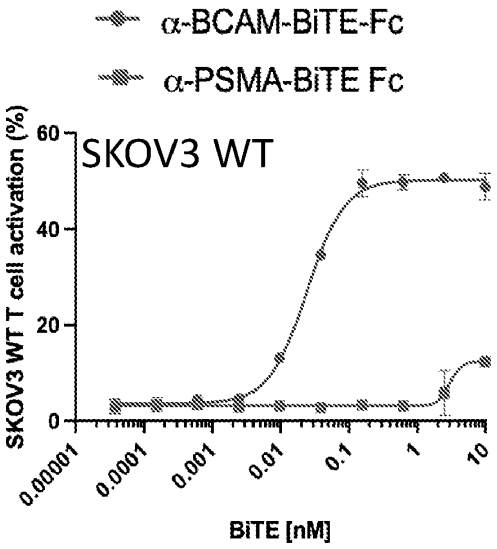


Figure 12B

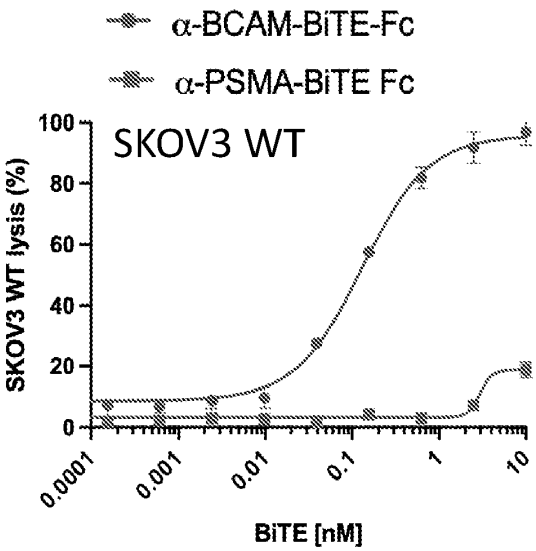


Figure 12C

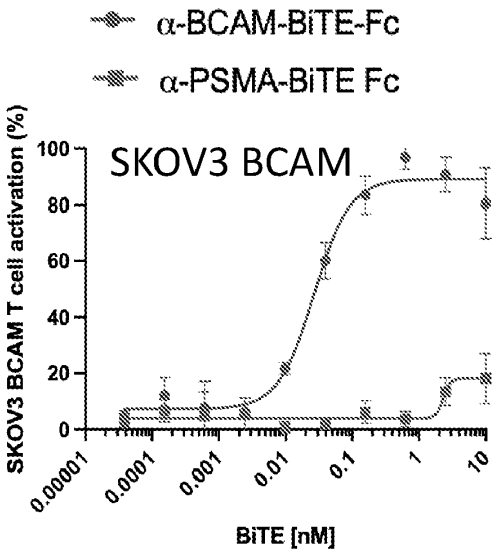


Figure 12D

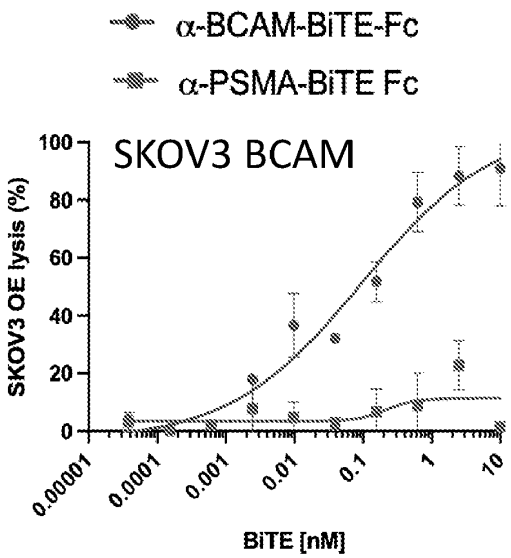


Figure 13A

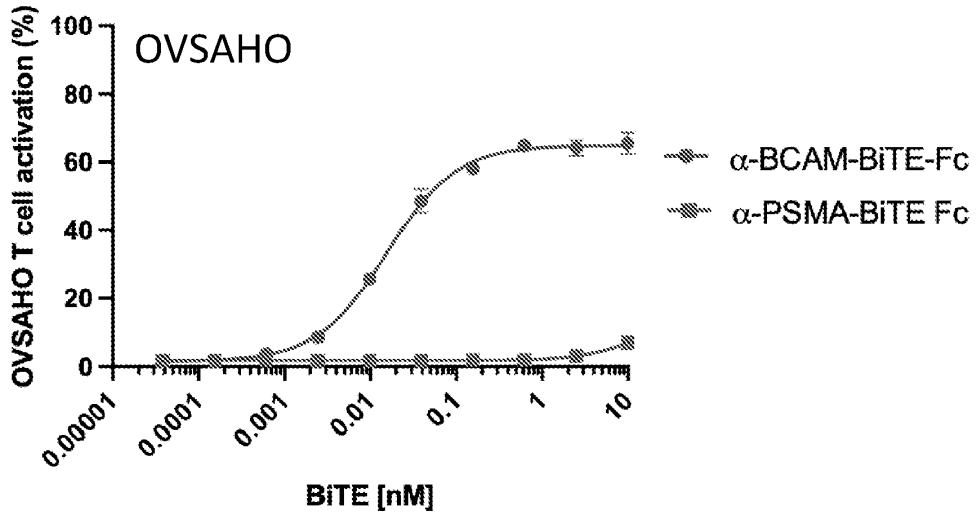


Figure 13B

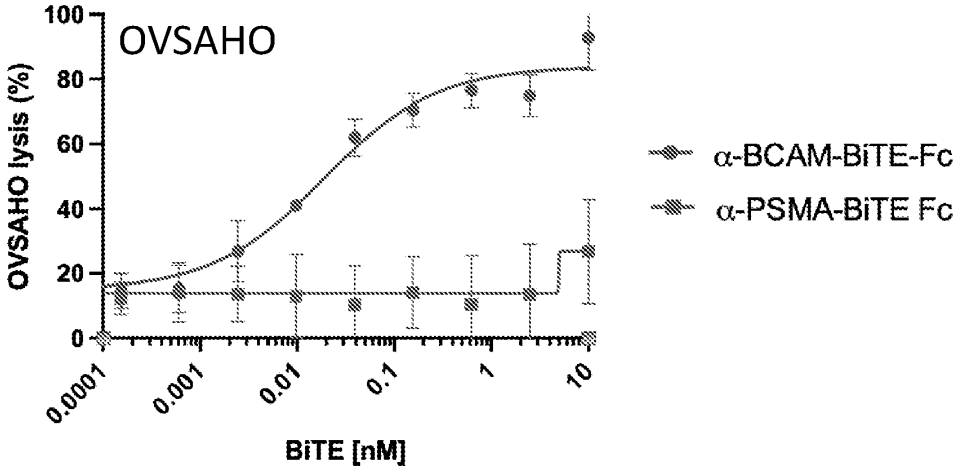


Figure 14

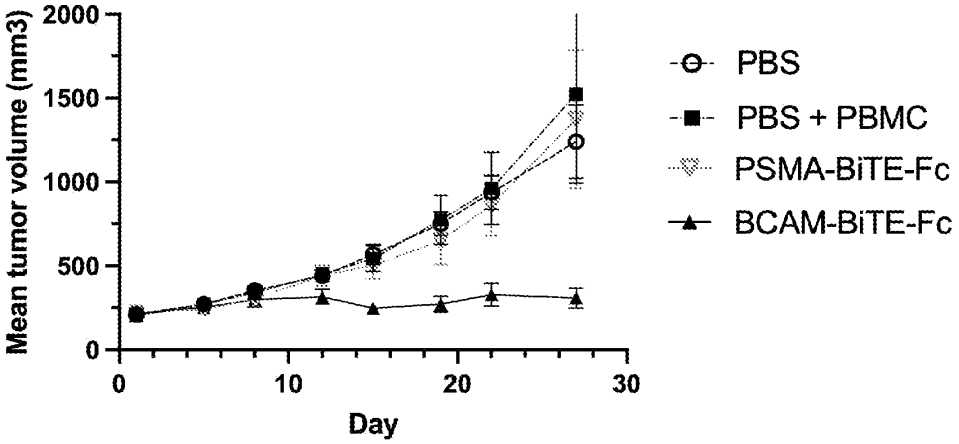


Figure 15A

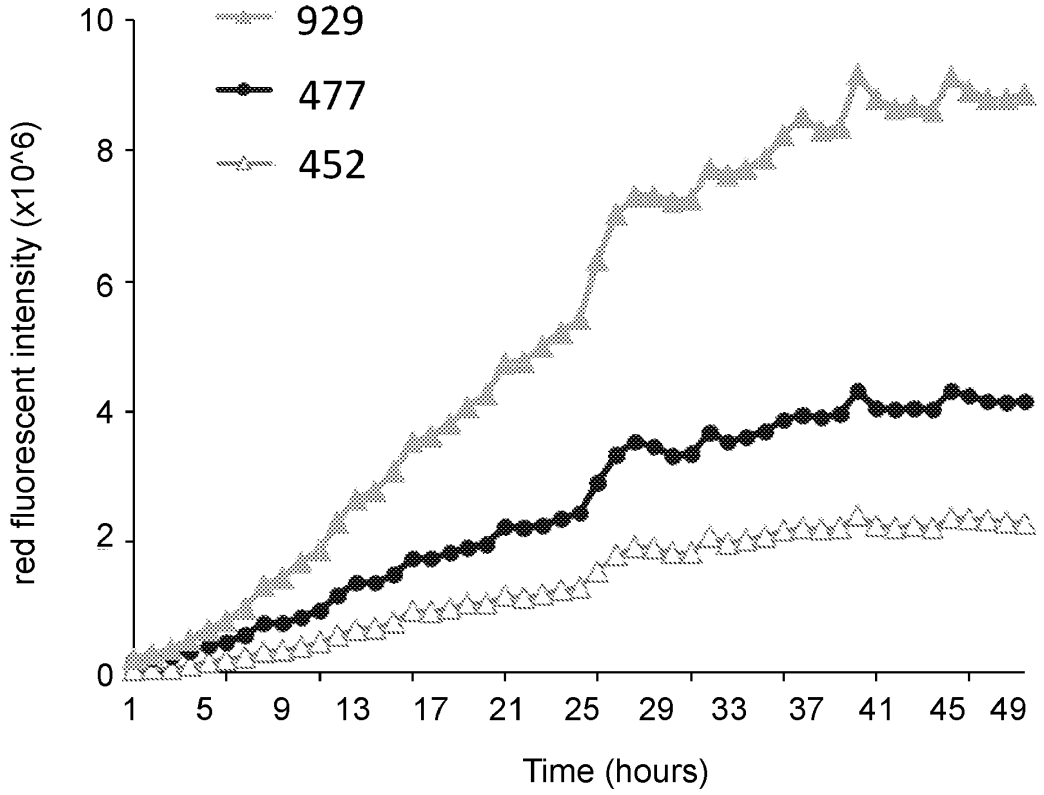


Figure 15B

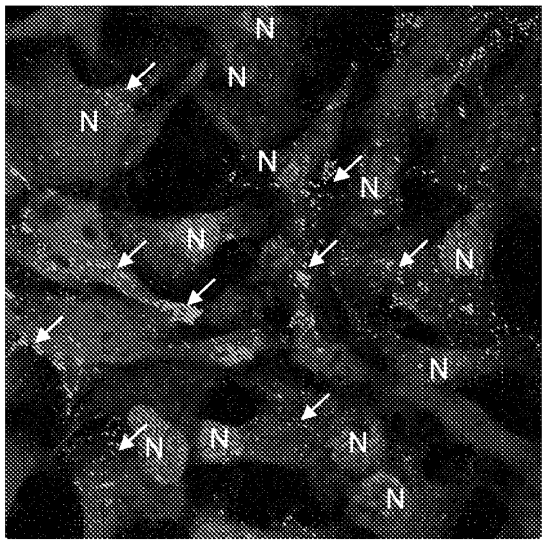


Figure 16

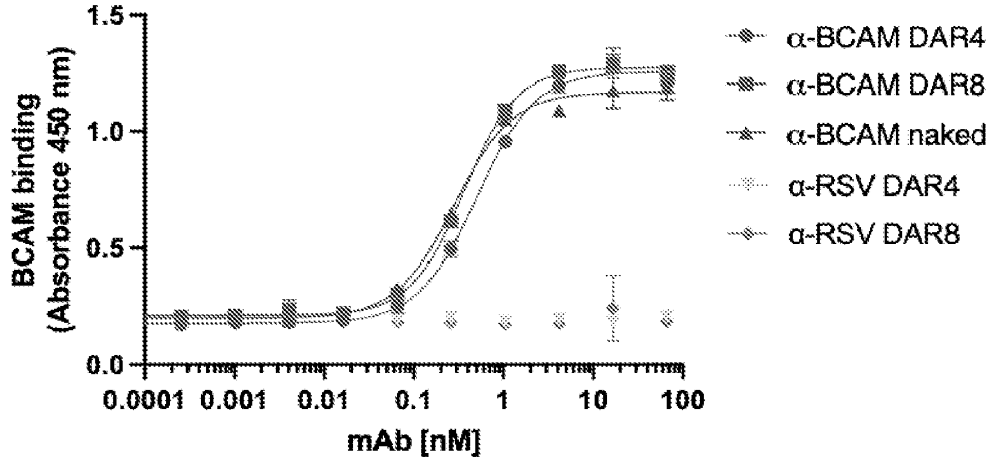


Figure 17

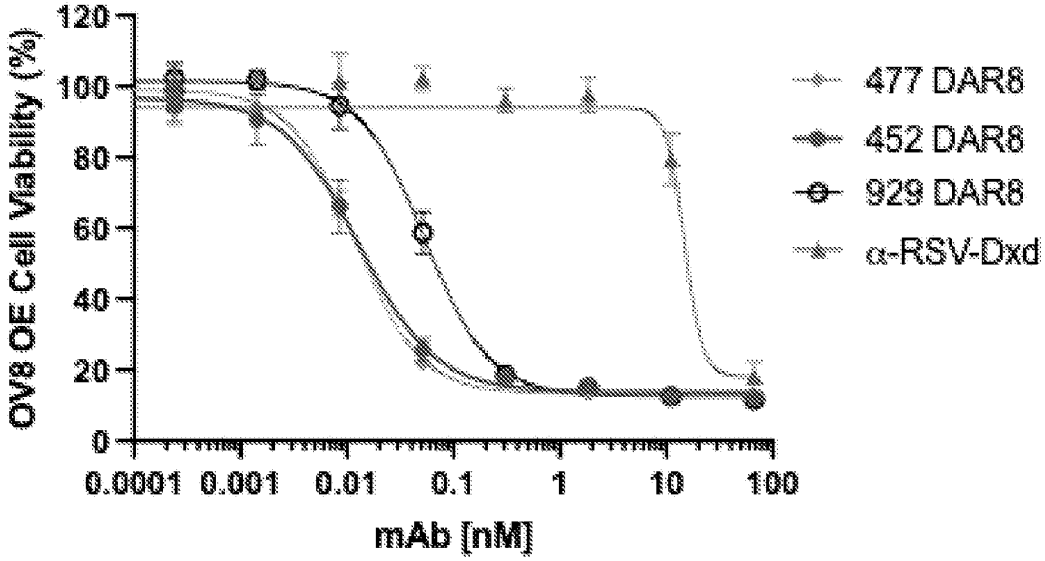


Figure 18A

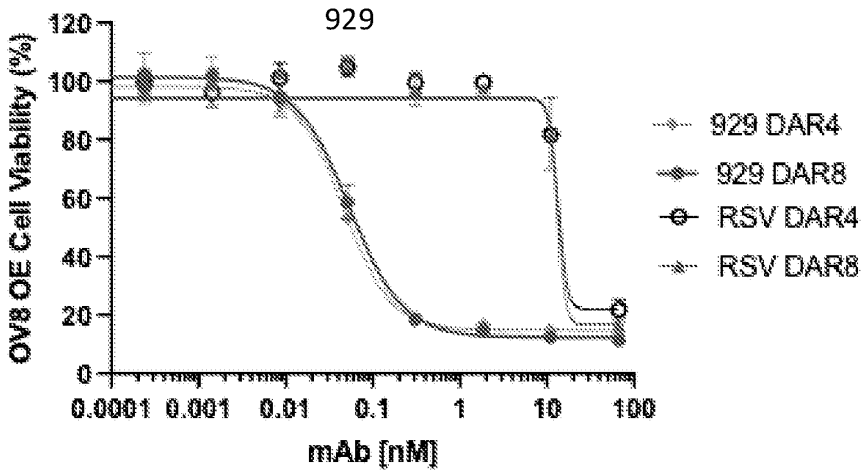


Figure 18B

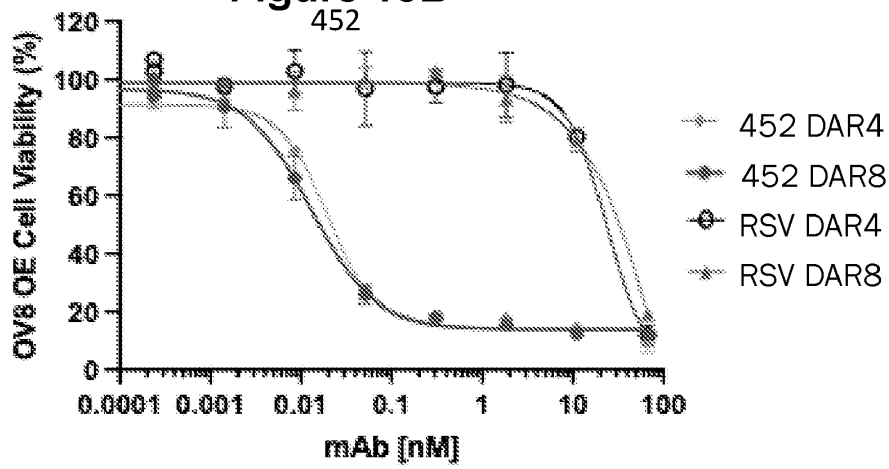


Figure 18C

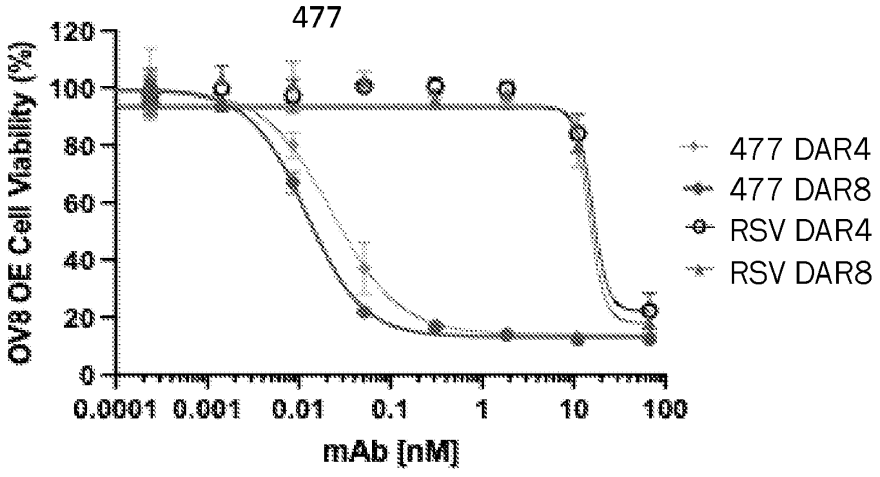


Figure 19A

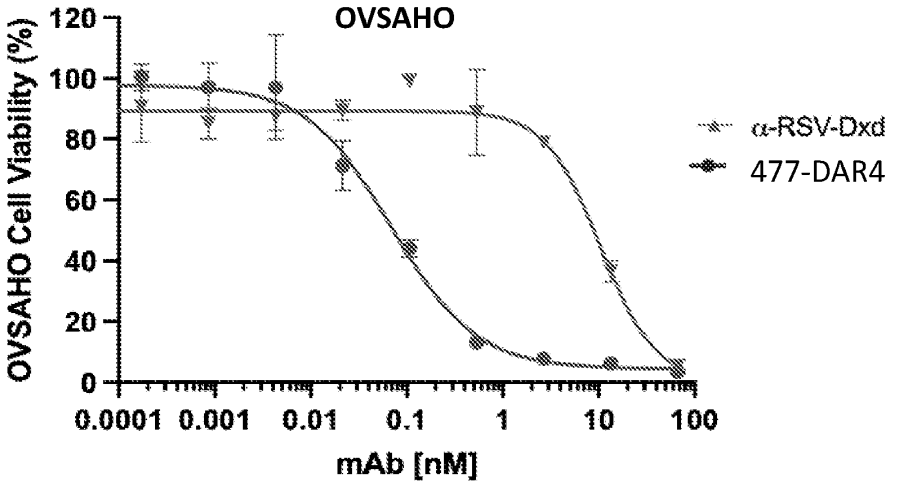


Figure 19B

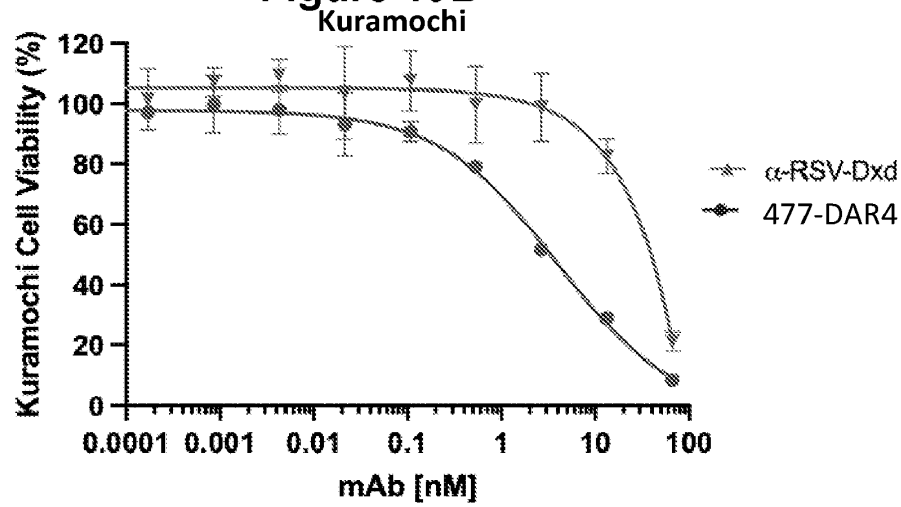


Figure 19C

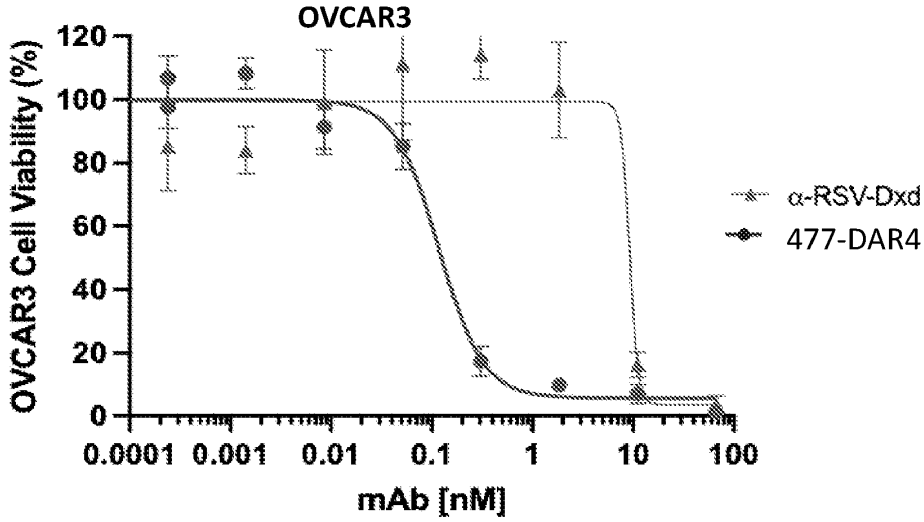


Figure 19D

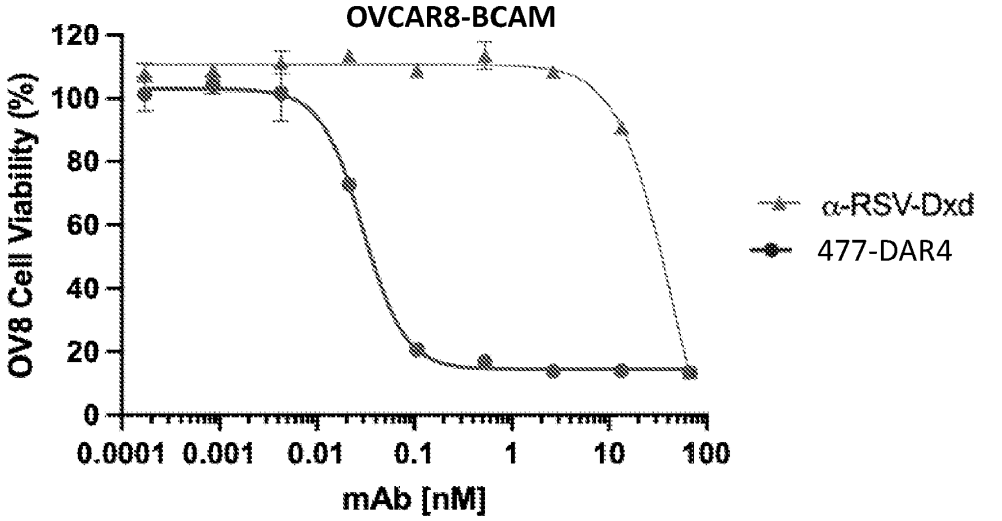


Figure 19E

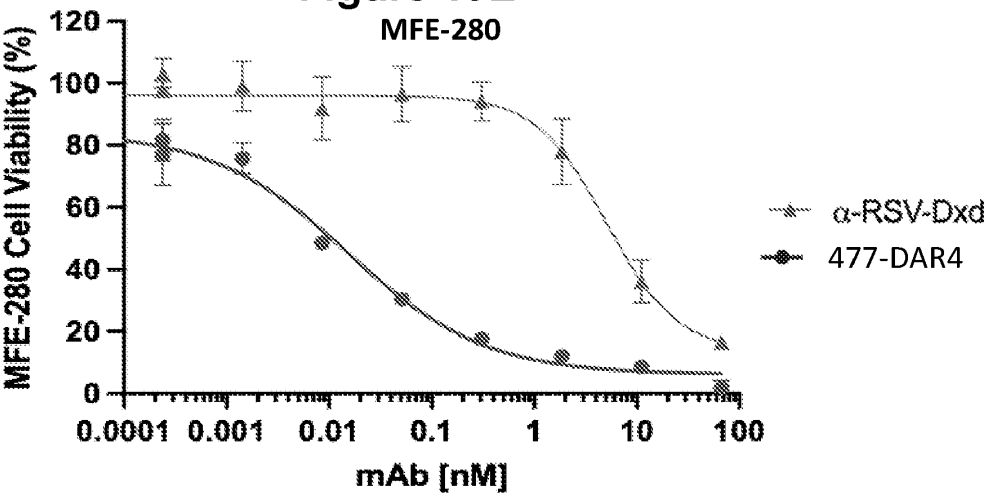


Figure 20

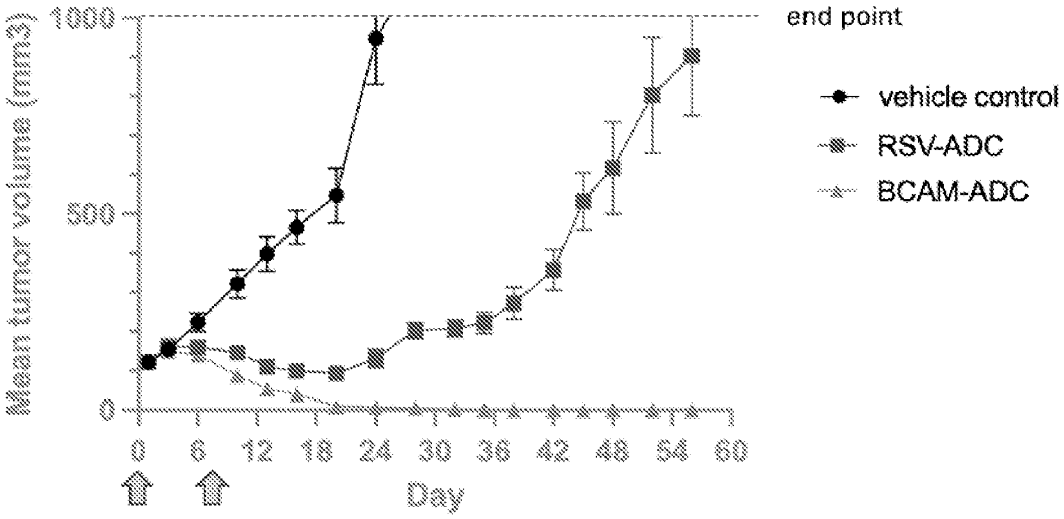


Figure 21

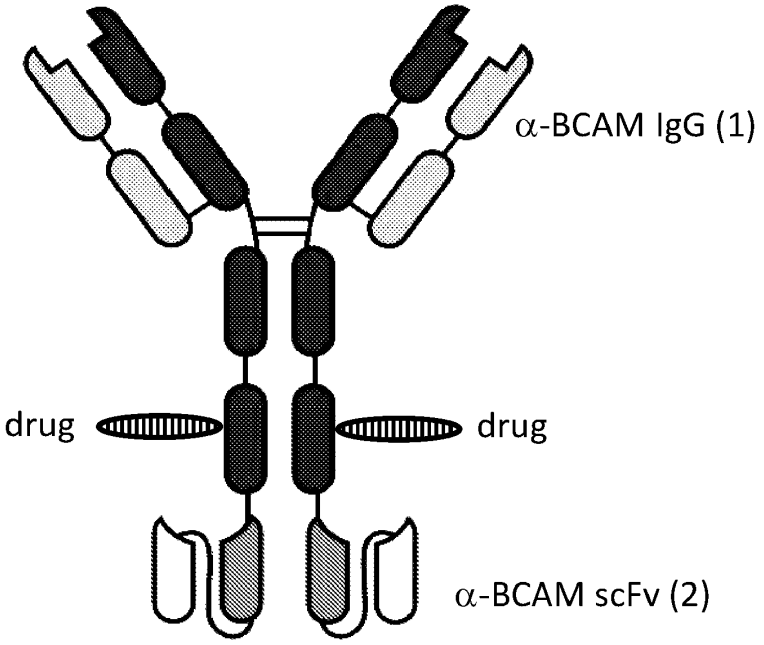


Figure 22A

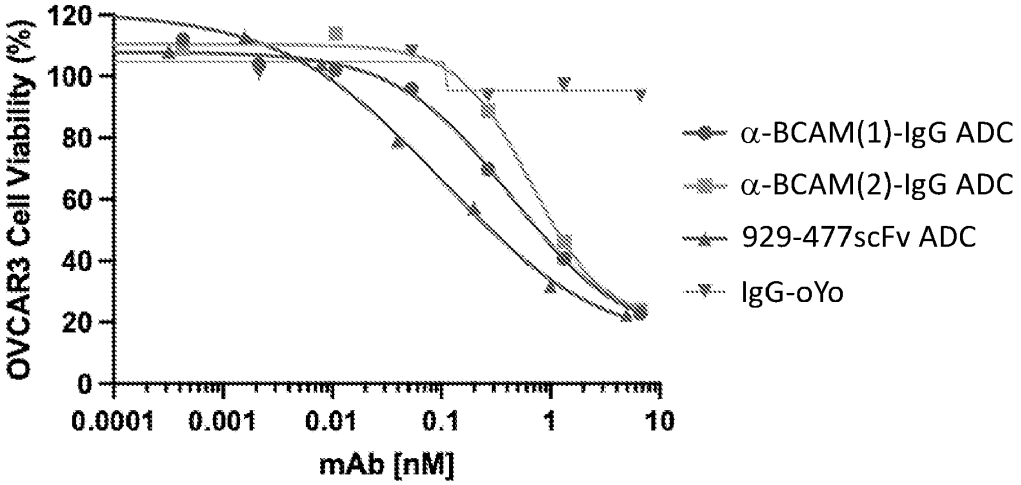


Figure 22B

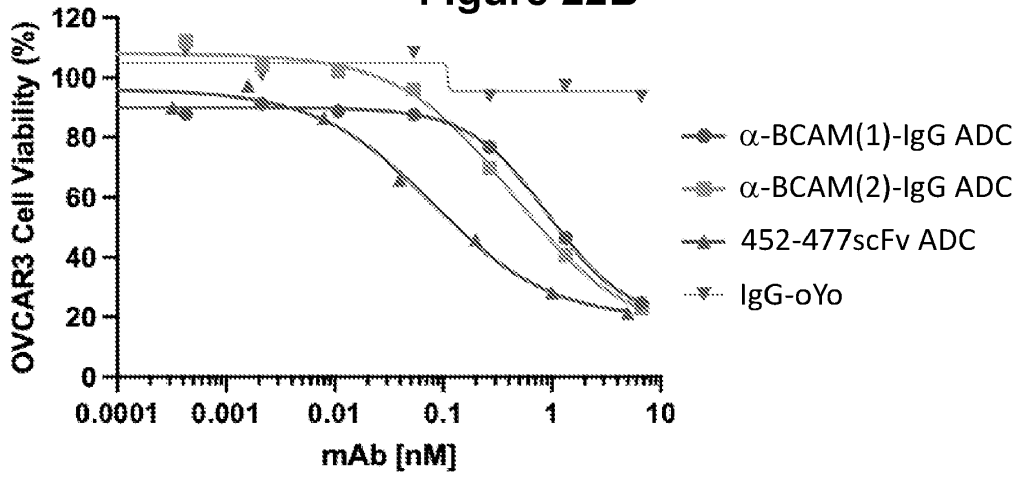


Figure 22C

