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FIG. 1A

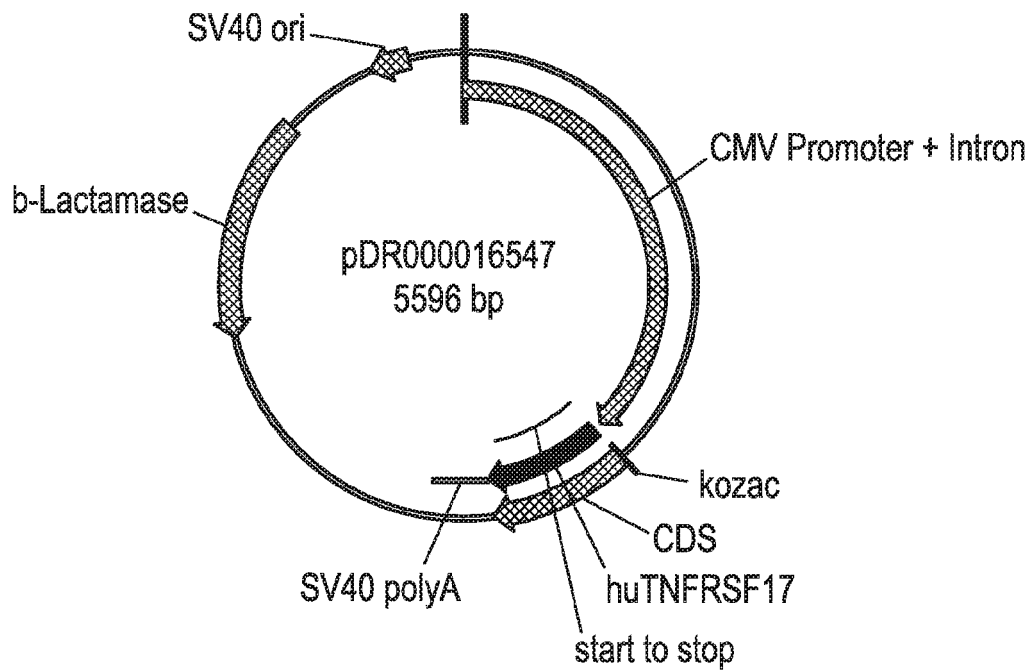
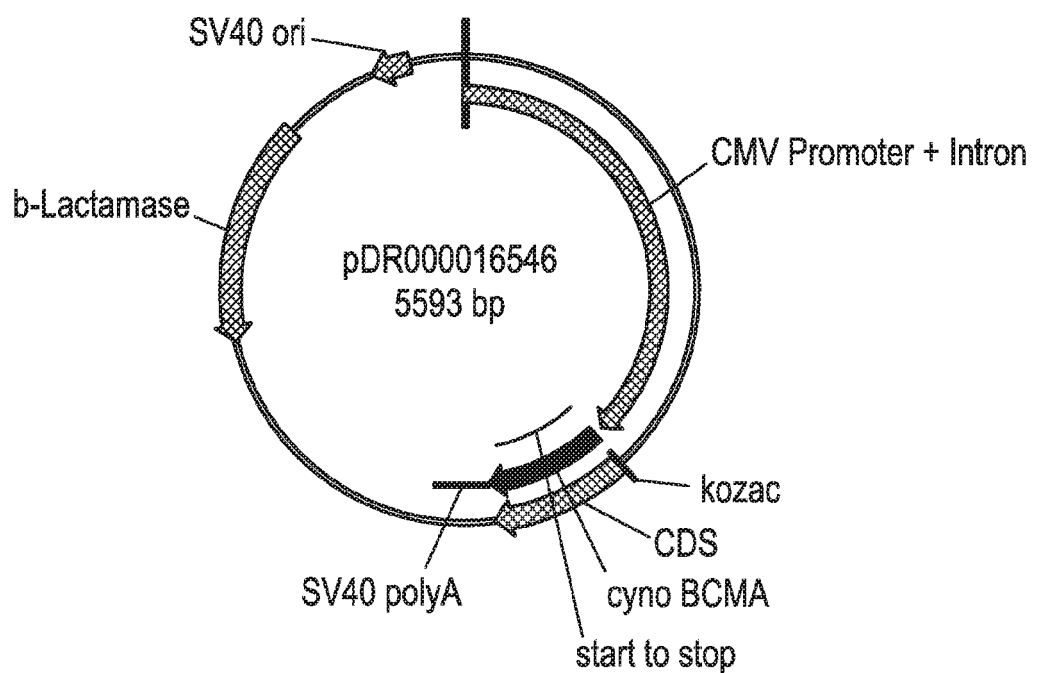


FIG. 1B



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FIG. 2A

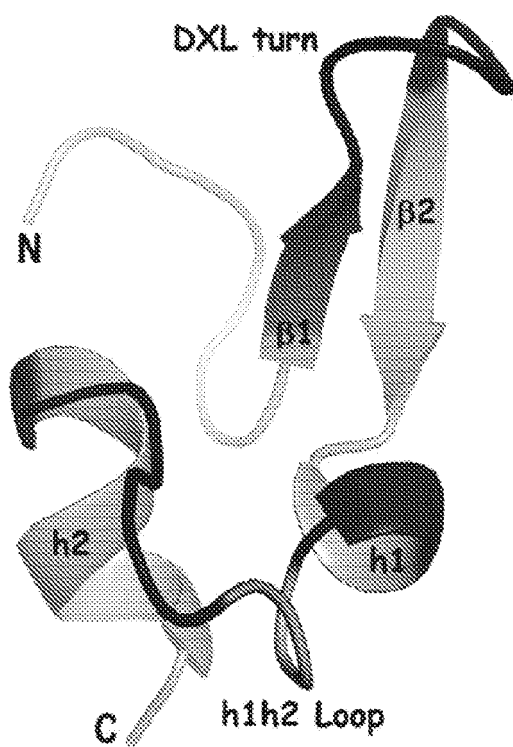


FIG. 2B

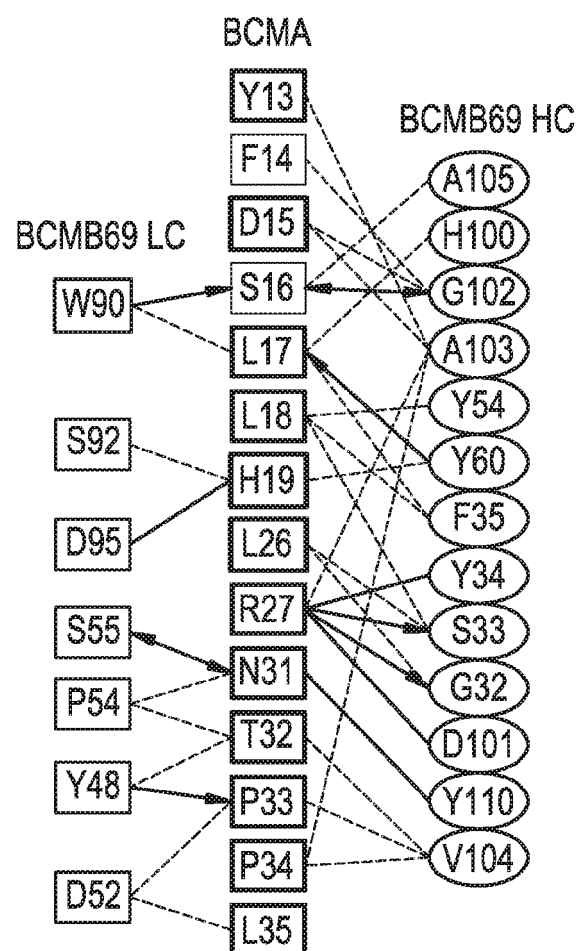


FIG. 2C

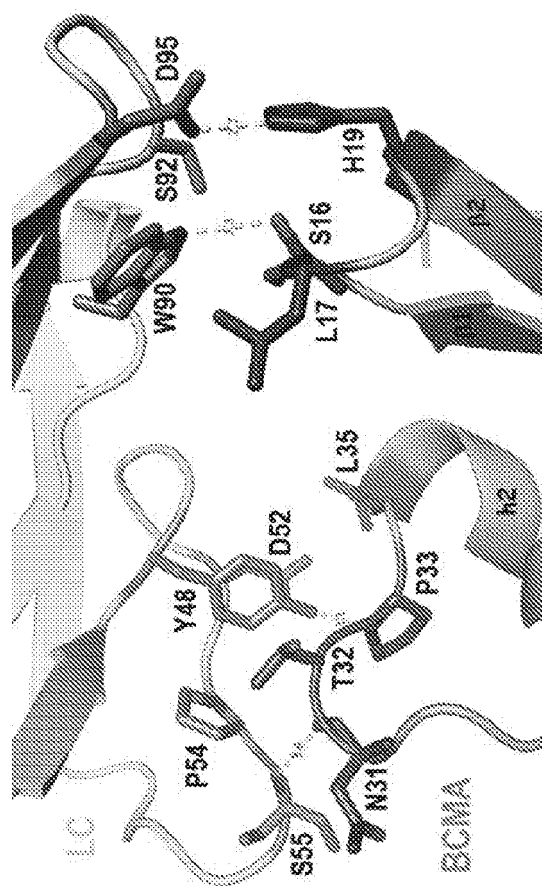
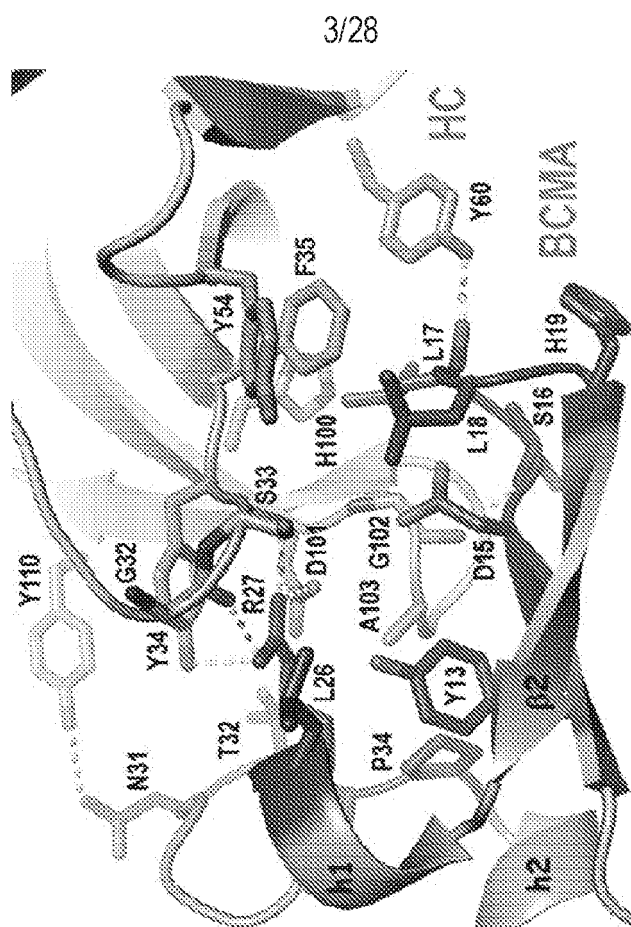


FIG. 2D



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FIG. 4A

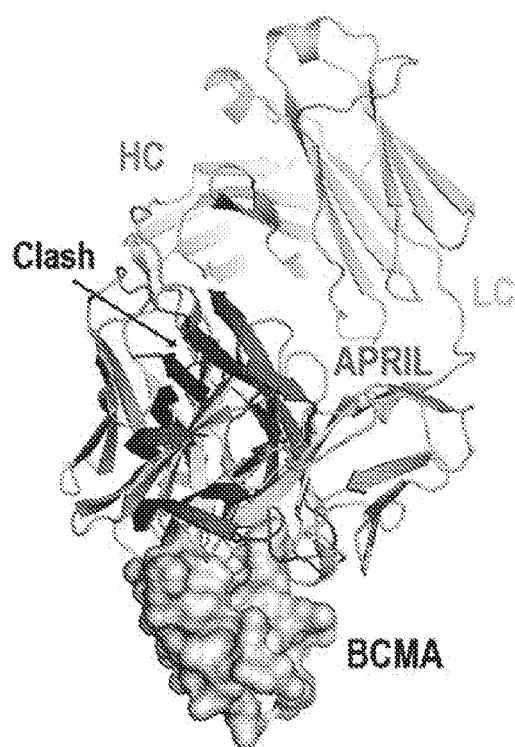
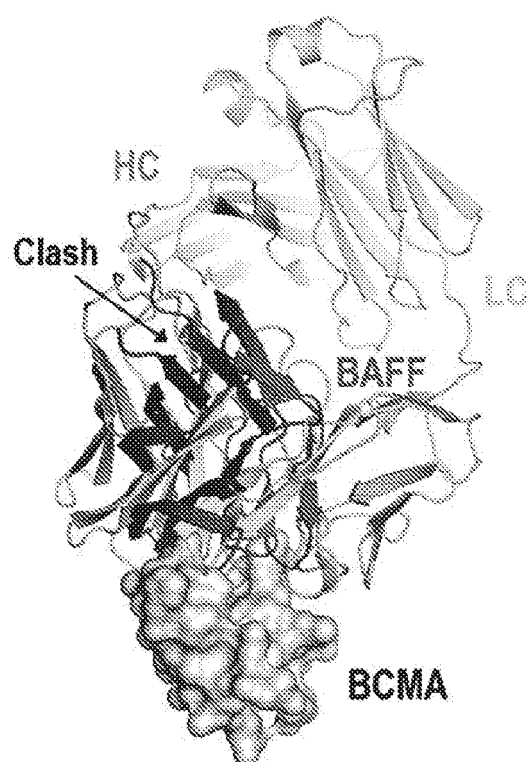


FIG. 4B



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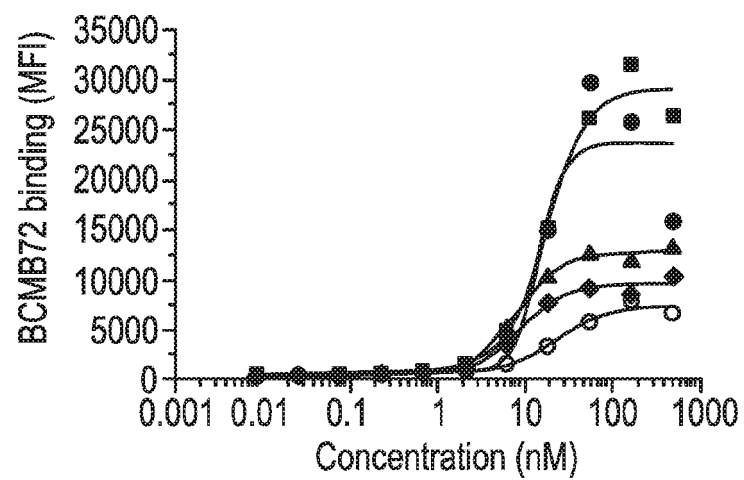
FIG. 5

mAb	Fc-BCMA	First Complex	Final Complex	RANGE
		(K_{D1} , nM)	(K_D , nM)	
BCMB72	Human	1.59	0.18	0.15 – 0.20
	Cyno	17.8	6.50	5.36 – 7.27
	Mouse	283	72.4	62.0 – 82.9

BCMB72 affinities: Human> Cyno>> Mouse

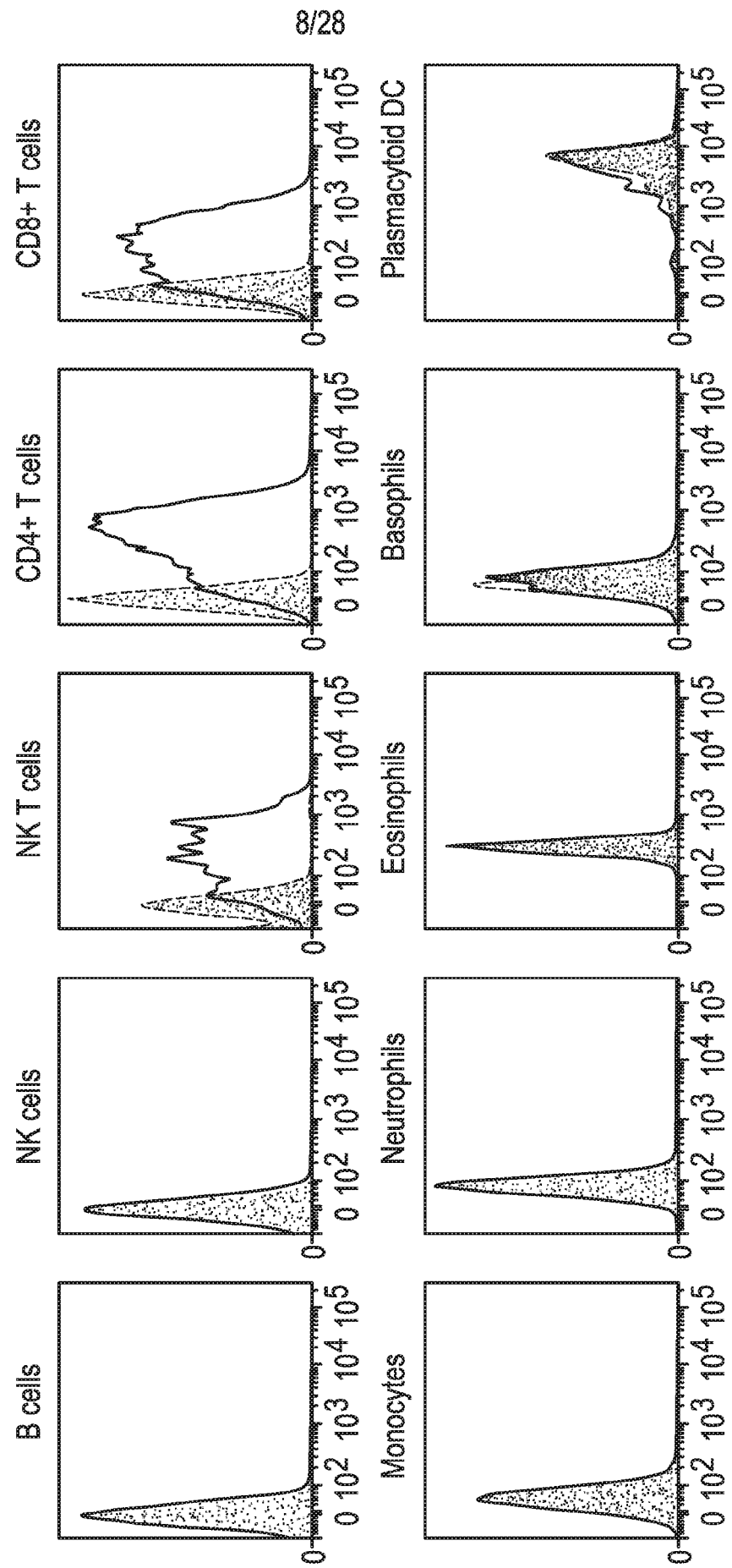
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FIG. 6



Cells:	EC50 (nM):
● H929	14.7
◆ MM.1R	8.74
■ EJM	17.5
○ LP1	22.3
▲ U2932	7.92

FIG. 7



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FIG. 8A

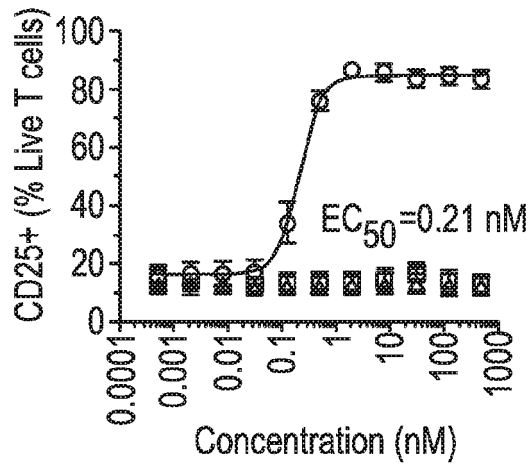


FIG. 8B

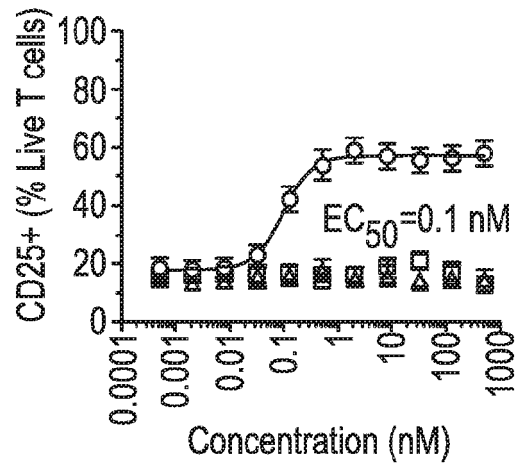


FIG. 8C

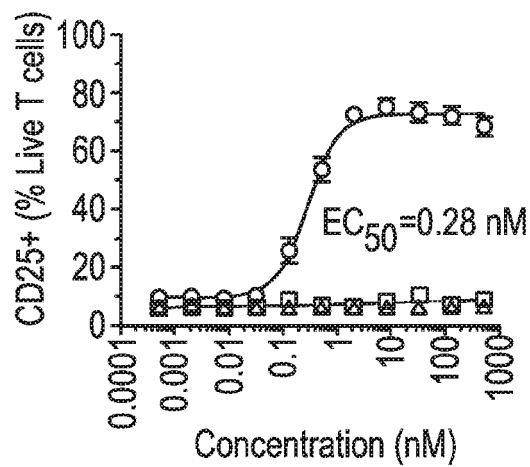


FIG. 8D

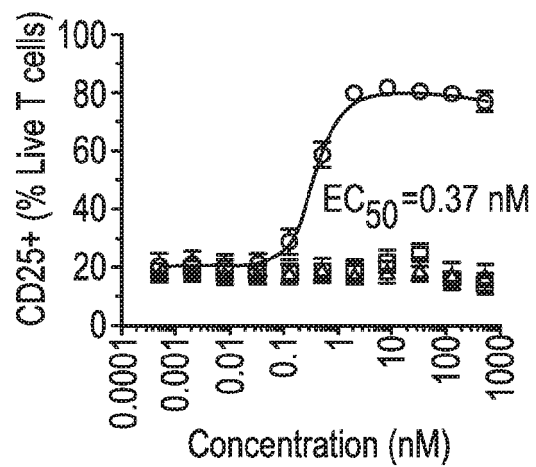
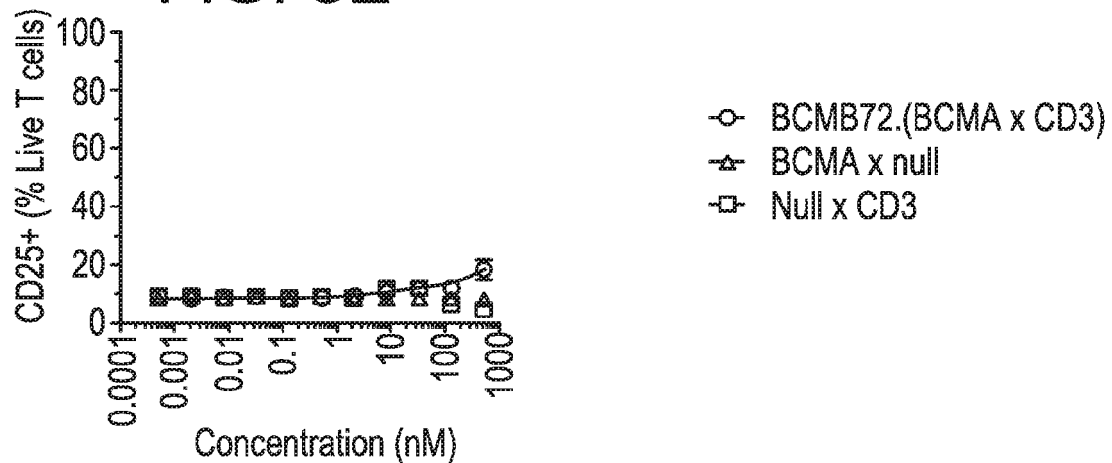


FIG. 8E



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FIG. 9A

Cell line	H929 (BCMA-00271)		H929 (BCMA-00273)	
Donor	EC50 (nM)	% Max activation	EC50 (nM)	% Max activation
M5137	0.1683	89.74	~ 0.5477	68.70
M7197	0.3000	80.73	1.0860	81.11
M6576	0.3178	85.08	0.5134	82.66
M6457	0.2436	74.57	0.7859	81.07
M2550	0.1572	92.34	0.4325	85.24
M6521	0.1313	85.01	no data	no data
M7077	no data	no data	1.3240	72.96
Average	0.2116	84.64	0.7070	78.53
Cell line	MM.1R (BCMA-00271)		MM.1R (BCMA-00273)	
Donor	EC50 (nM)	% Max activation	EC50 (nM)	% Max activation
M5137	0.0968	64.71	0.1296	79.62
M7197	0.1159	45.60	0.1323	70.25
M6576	0.1179	50.93	0.1646	78.08
M6457	0.0776	49.27	0.1042	80.51
M2550	0.1206	60.05	0.3514	83.80
M6521	0.0964	73.62	no data	no data
M7077	no data	no data	0.2470	66.68
Average	0.0992	57.12	0.1675	76.25
Cell line	RPMI 8226 (BCMA-00271)		RPMI 8226 (BCMA-00273)	
Donor	EC50 (nM)	% Max activation	EC50 (nM)	% Max activation
M5137	0.2448	71.81	0.4787	50.33
M7197	0.2260	67.98	0.3357	64.15
M6576	0.2482	77.69	0.3094	70.58
M6457	0.3041	66.83	0.4631	57.15
M2550	0.6072	84.07	0.5163	70.42
M6521	0.1409	67.74	no data	no data
M7077	no data	no data	0.4055	54.73
Average	0.2777	72.76	0.4024	61.19

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FIG. 9B

Cell line	U266 (BCMA-00271)		U266 (BCMA-00273)	
Donor	EC50 (nM)	% Max activation	EC50 (nM)	% Max activation
M5137	0.2068	85.39	0.4073	73.02
M7197	0.3833	71.98	0.5545	65.98
M6576	0.4521	80.52	0.6042	76.95
M6457	0.3646	74.82	0.4772	61.85
M2550	0.5256	85.30	0.6823	76.24
M6521	0.4068	84.71	no data	no data
M7077	no data	no data	0.6629	68.31
Average	0.3743	80.41	0.5711	70.34
Cell line	MV4-11 (BCMA-00271)		MV4-11 (BCMA-00273)	
Donor	EC50 (nM)	% Max activation	EC50 (nM)	% Max activation
M5137	~ 2.940e+006	~ 1522	~ 1.357	4.702
M7197	6.214	7.572	144	6.156
M6576	~ 1.855e+010	~ 104868	31.41	10.7
M6457	~ 2.294e+007	~ 4196	no fit	no fit
M2550	~ 4.075e+008	~ 68789	16.85	5.626
M6521	~ 59722	~ 110.5	no data	no data
M7077	no data	no data	279	8.427
Average	1.531E+12	229246	30.58	6.958

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FIG. 10A

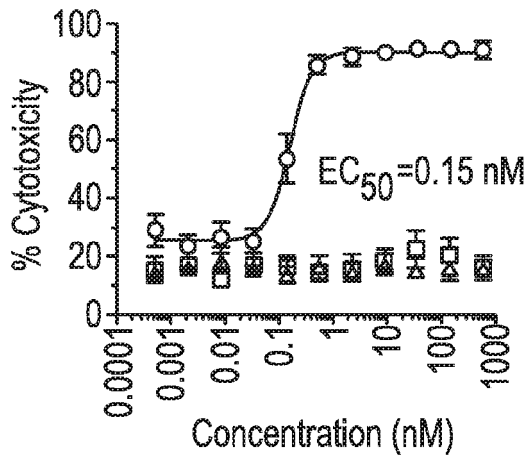


FIG. 10B

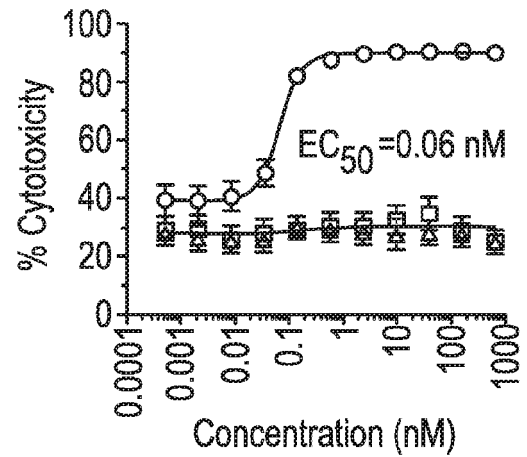


FIG. 10C

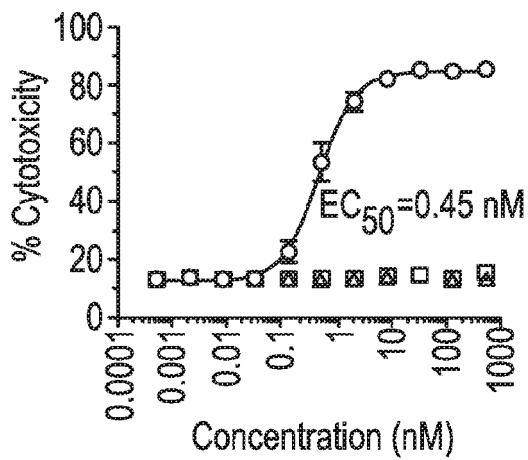


FIG. 10D

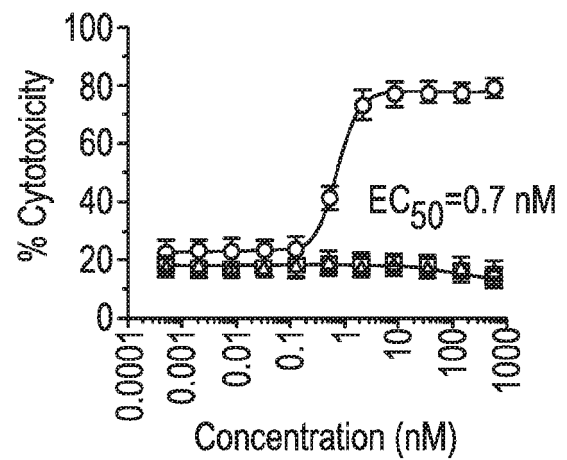
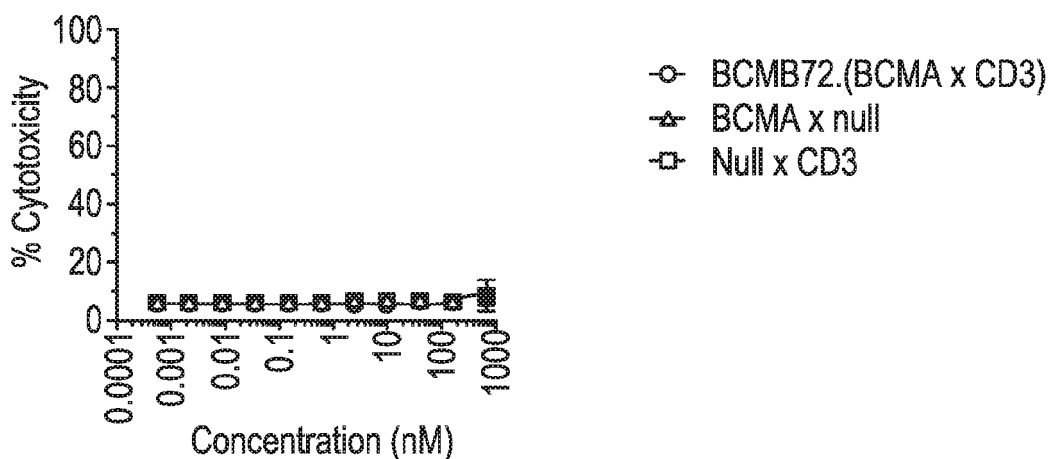


FIG. 10E



- BCMB72.(BCMA x CD3)
- △ BCMA x null
- Null x CD3

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FIG. 11A

Cell line	H929 (BCMA-00271)		H929 (BCMA-00273)	
Donor	EC50 (nM)	% Max lysis	EC50 (nM)	% Max lysis
M5137	0.2376	90.48	1.1630	75.61
M7197	0.1631	92.02	1.3480	82.56
M6576	~ 0.1405	91.75	0.4301	87.14
M6457	0.2294	79.98	0.8720	82.29
M2550	~ 0.1130	92.48	0.3575	89.63
M6521	0.0973	92.27	no data	no data
M7077	no data	no data	1.7690	80.05
Average	0.1495	89.72	0.8133	83.13
Cell line	MM.1R (BCMA-00271)		MM.1R (BCMA-00273)	
Donor	EC50 (nM)	% Max lysis	EC50 (nM)	% Max lysis
M5137	0.0654	92.97	0.0569	97.23
M7197	0.0824	92.60	0.0945	96.75
M6576	0.0480	90.47	0.0617	95.29
M6457	0.0548	81.00	0.0432	87.92
M2550	0.0595	92.95	0.1212	96.97
M6521	0.0511	87.76	no data	no data
M7077	no data	no data	0.1008	94.98
Average	0.0617	89.62	0.0766	94.87
Cell line	RPMI 8226 (BCMA-00271)		RPMI 8226 (BCMA-00273)	
Donor	EC50 (nM)	% Max lysis	EC50 (nM)	% Max lysis
M5137	0.5044	82.02	1.0670	81.12
M7197	0.7262	82.47	0.8636	78.55
M6576	0.3366	86.65	0.4842	79.81
M6457	0.6967	76.10	1.0700	69.25
M2550	0.5379	89.73	0.6956	84.73
M6521	0.1625	81.03	no data	no data
M7077	no data	no data	1.2050	73.50
Average	0.4531	83.55	0.8543	77.99

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FIG. 11B

Cell line	U266 (BCMA-00271)		U266 (BCMA-00273)	
Donor	EC50 (nM)	% Max lysis	EC50 (nM)	% Max lysis
M5137	0.7610	72.59	1.0180	76.19
M7197	0.7355	76.36	1.1610	77.29
M6576	0.7298	83.86	0.9710	82.34
M6457	0.7734	62.05	1.4320	56.77
M2550	0.6516	83.21	0.9347	85.93
M6521	0.5621	83.09	no data	no data
M7077	no data	no data	1.1580	74.21
Average	0.7046	76.82	1.0800	75.31
Cell line	MV4-11 (BCMA-00271)		MV4-11 (BCMA-00273)	
Donor	EC50 (nM)	% Max lysis	EC50 (nM)	% Max lysis
M5137	2.038	8.425	~ 0.06555	18.31
M7197	~ 157.1	4.79	no fit	no fit
M6576	~ 391461	~ 23049	18.61	9.836
M6457	no fit	no fit	0	-9780
M2550	~ 147.7	8.21	~ 14.70	8.366
M6521	no fit	no fit	no data	no data
M7077	no data	no data	~ 1.247e+022	18.68
Average	~ 157.2	7.658	no fit	no fit

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FIG. 12A

T cell mediated cytotoxicity assay
H929 cells (48hrs); Donor ID: M 5763 & 6576

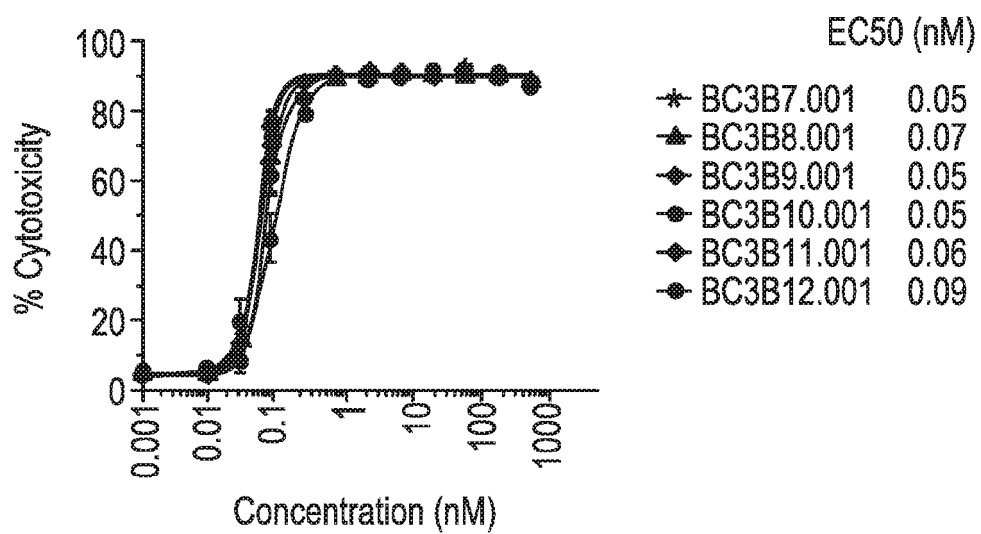
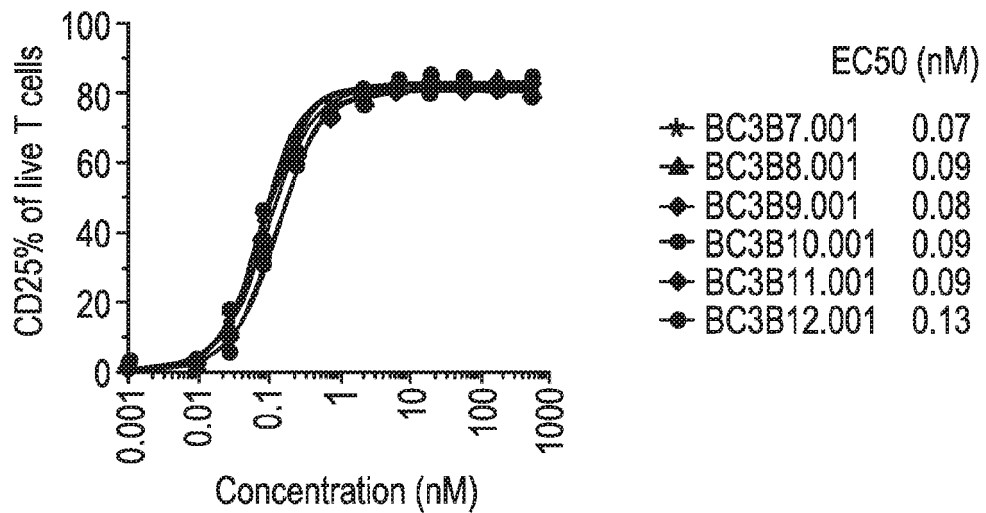


FIG. 12B

T cell activation assay
H929 cells (48hrs); Donor ID: M 5763 & 6576



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FIG. 13

BCMAxCD3 EC ₅₀ Analysis (nM)						
	M2550	M5137	M6457	M6541	M6576	M7197
IFNg	2.049	~ 2.079	~ 2.112	~ 0.9252	1.366	1.126
TNFa	2.909	2.377	3.717	2.863	1.991	95.15
IL-2	3.262	1.645	2.508	1.297	1.501	1.767
IL-6	2.385	~ 2.054	1.65	~ 0.5650	0.7961	~ 0.5003
IL-8	1.031	0.3267	0.7208	~ 0.1117	0.328	~ 0.4640
IL-10	1.158	~ 0.7865	0.7296	~ 0.5154	~ 0.5217	0.9593

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FIG. 14A

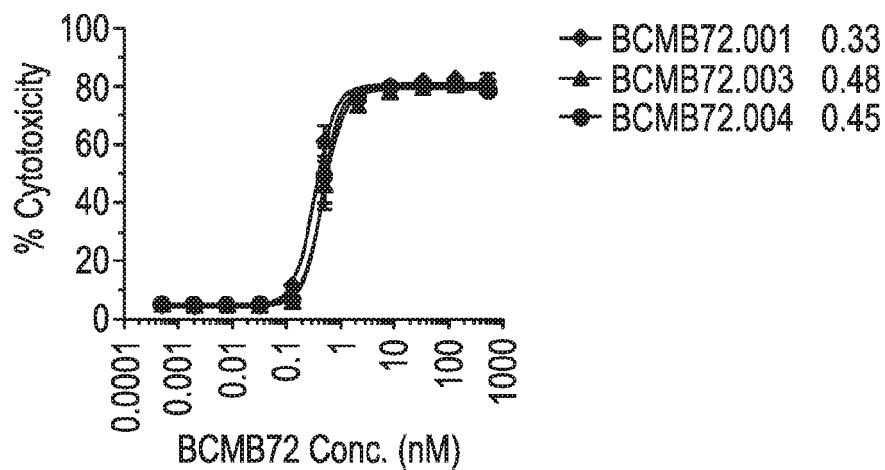
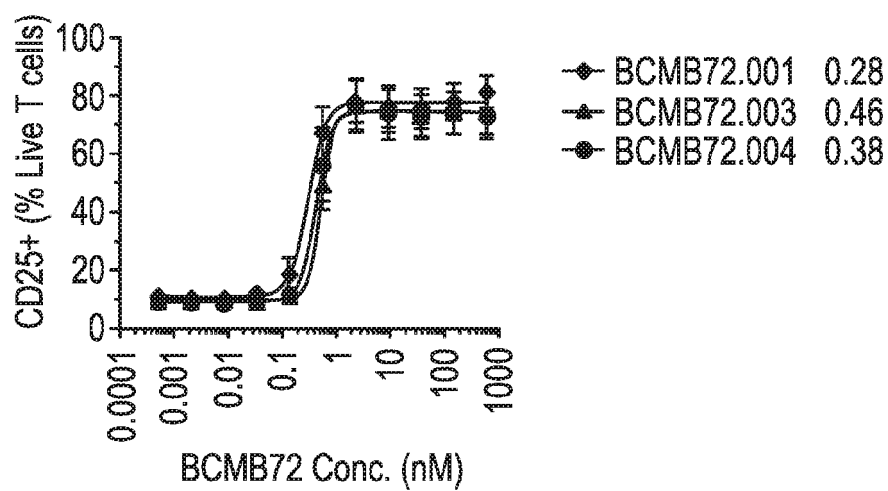


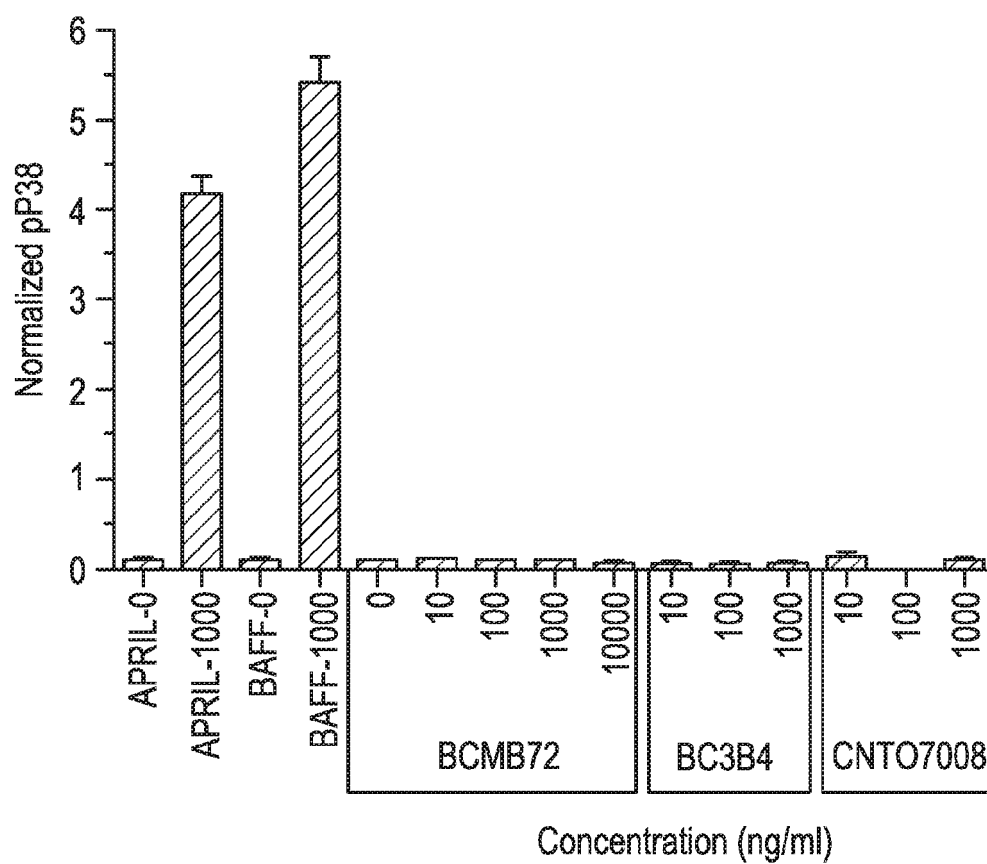
FIG. 14B



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FIG. 15

P38 activation in H929 cells



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FIG. 16A

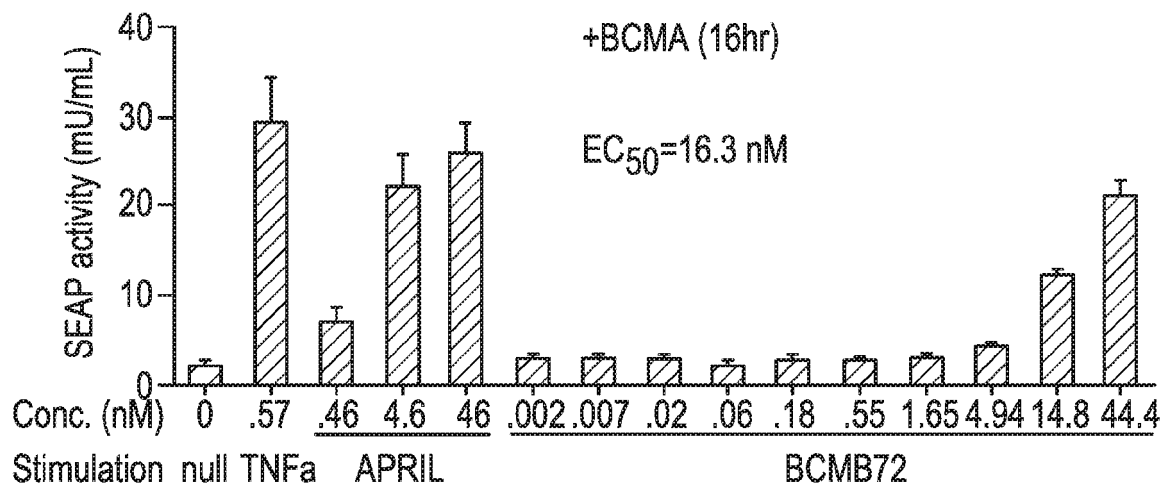


FIG. 16B

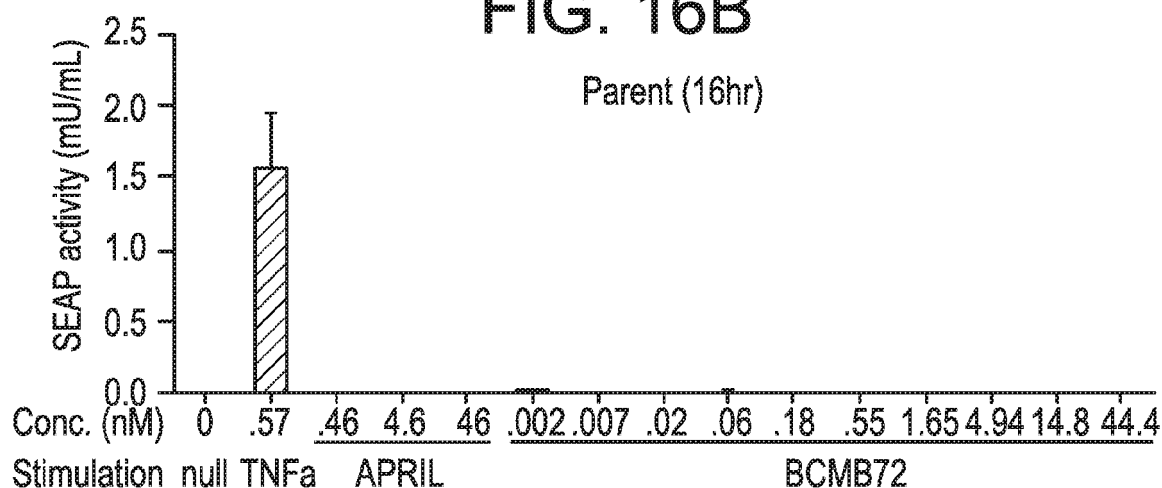
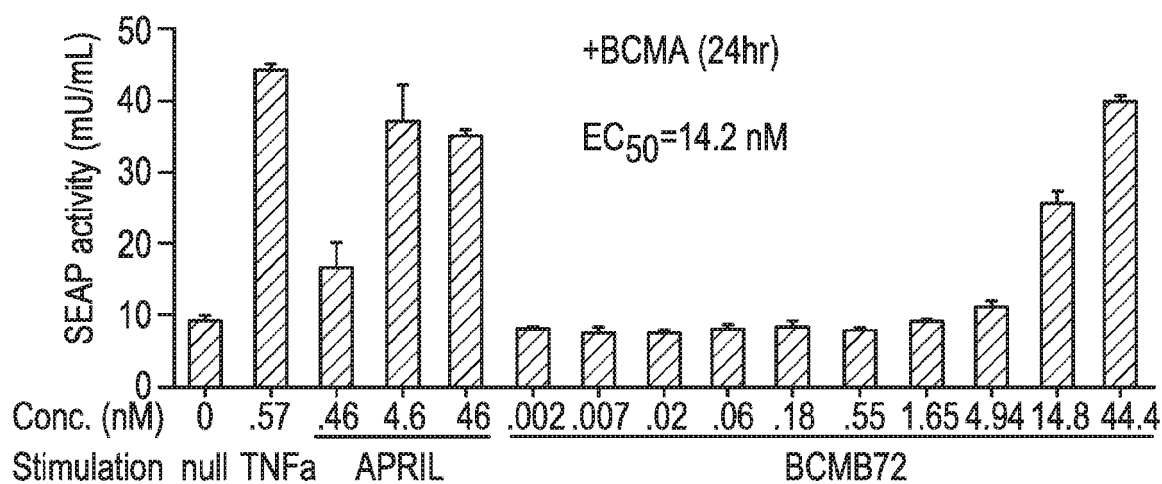
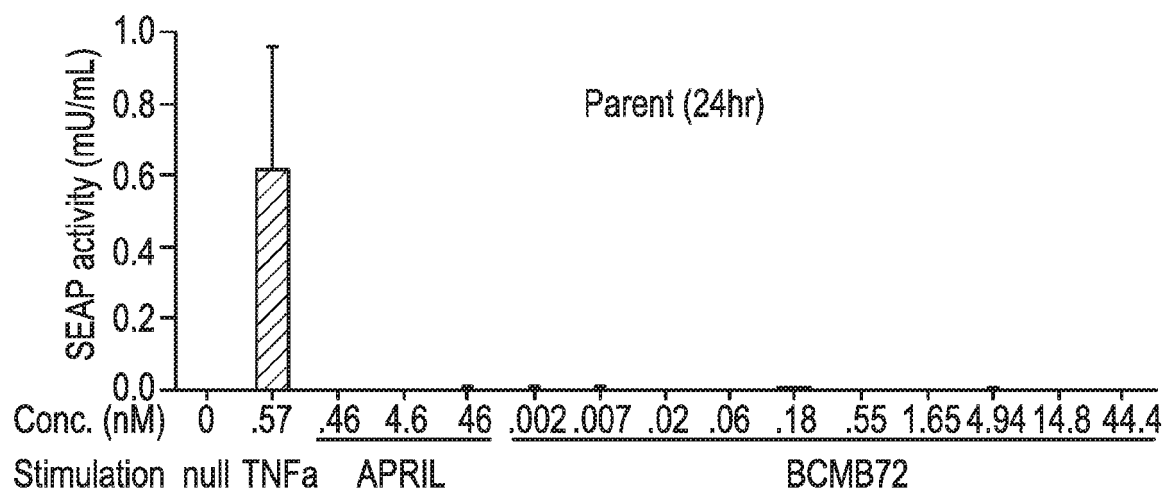
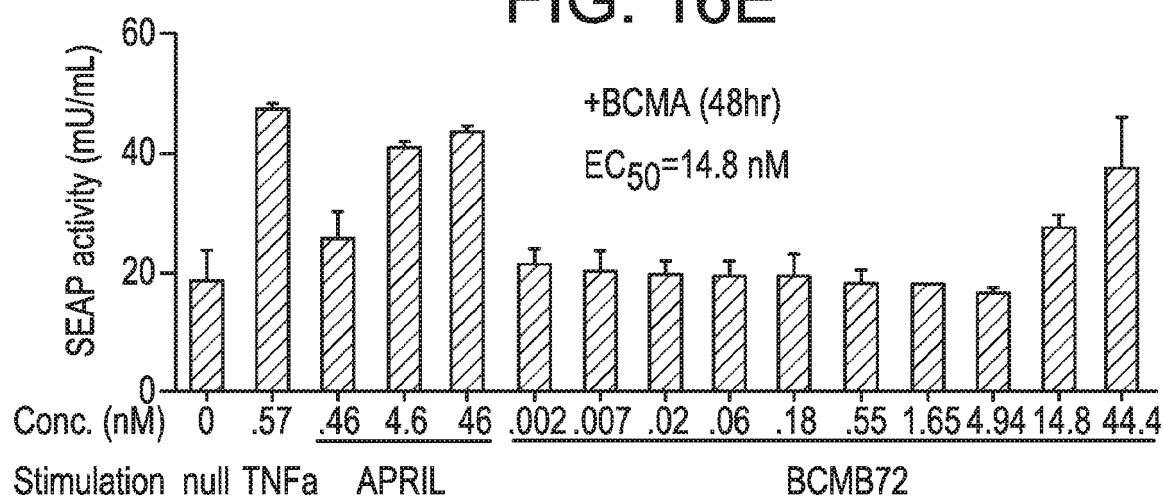
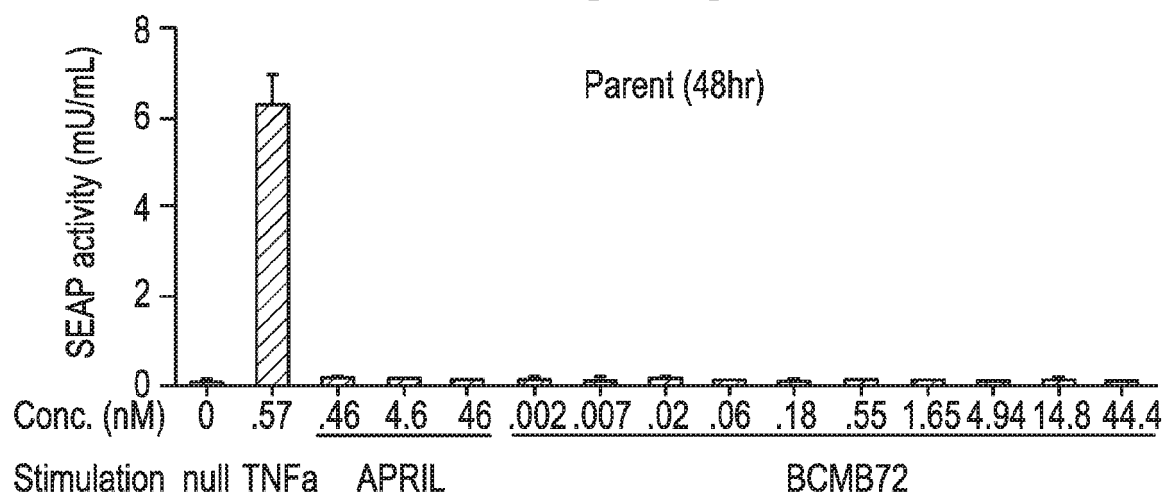


FIG. 16C



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FIG. 16D**FIG. 16E****FIG. 16F**

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FIG. 17A

BCMB72; T cells: M7077 and M5137
No Fc blocker, (48hr)

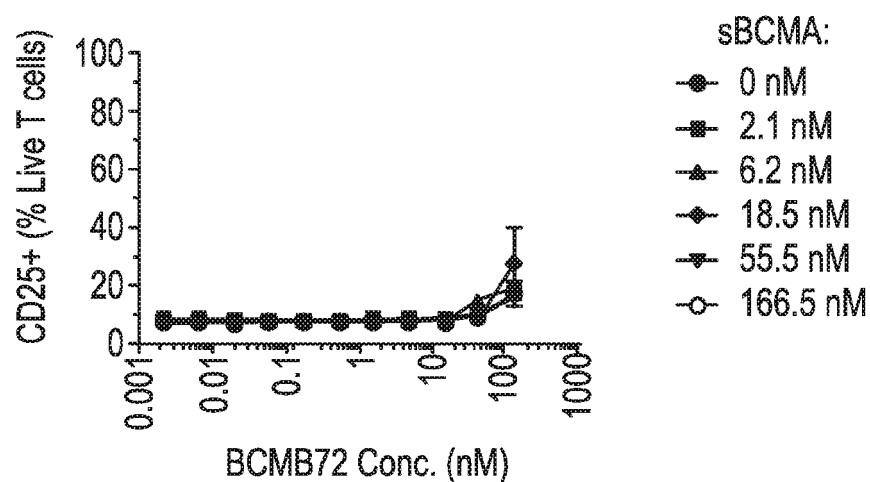


FIG. 17B

Null x CD3; T cells: M7077 and M5137
No Fc blocker, (48hr)

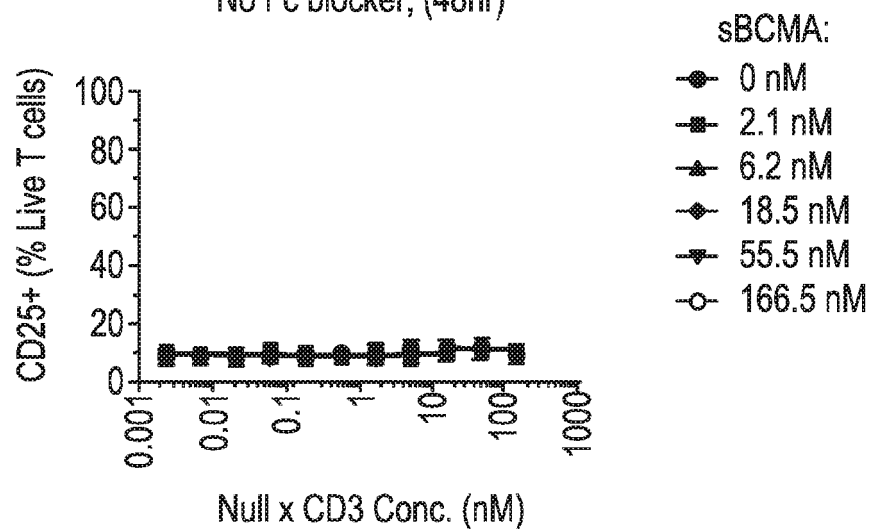
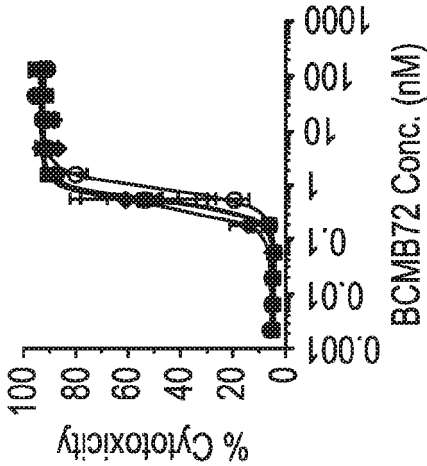


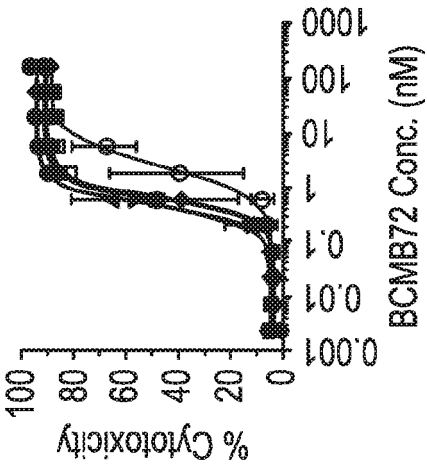
FIG. 18A



sBCMA: EC₅₀ (nM):

- 0 nM
- 2.1 nM
- ▲ 6.2 nM
- ◆ 18.5 nM
- ▼ 55.5 nM
- 166.5 nM

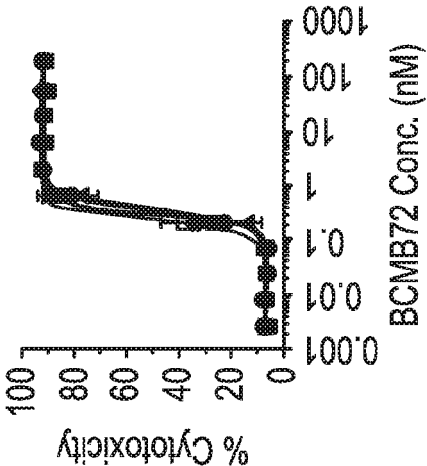
FIG. 18B



APRIL: EC₅₀ (nM):

- 0 nM
- 0.2 nM
- ▲ 0.6 nM
- ◆ 1.7 nM
- ▼ 5.1 nM
- 15.4 nM
- 46.1 nM

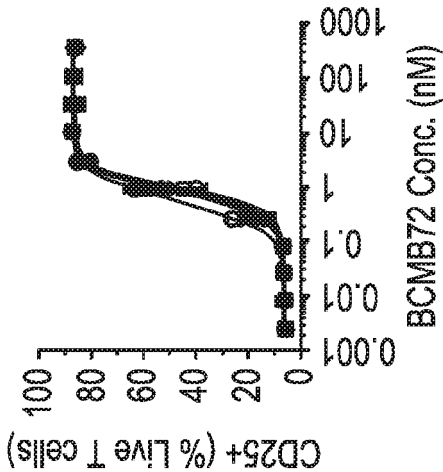
FIG. 18C



BAFF: EC₅₀ (nM):

- 0 nM
- 0.2 nM
- ▲ 0.6 nM
- ◆ 1.9 nM
- ▼ 5.7 nM
- 17 nM
- 51 nM

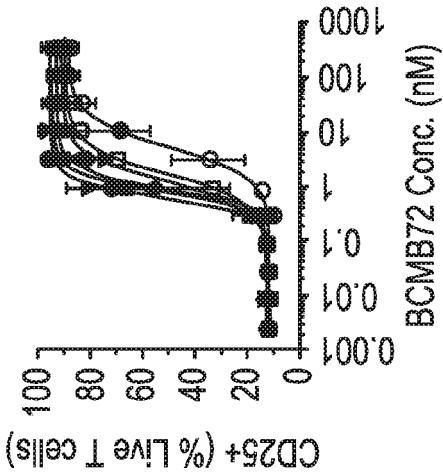
FIG. 18F



BAFF: EC₅₀ (nM):

●	0 nM	0.37
■	0.2 nM	0.50
▲	0.6 nM	0.44
◆	1.9 nM	0.48
▼	5.7 nM	0.53
□	17 nM	0.62
○	51 nM	0.33

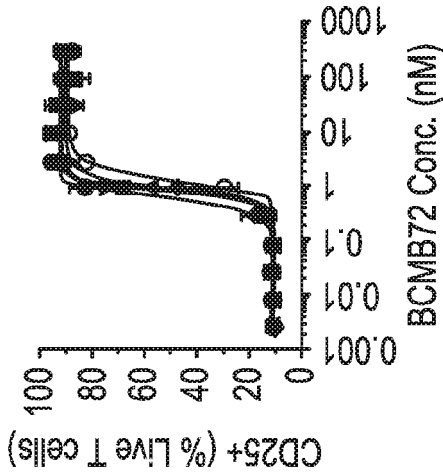
FIG. 18E



APRIL: EC₅₀ (nM):

●	0 nM	0.40
■	0.2 nM	0.51
▲	0.6 nM	0.49
◆	1.7 nM	0.59
▼	5.1 nM	0.70
□	15.4 nM	0.96
○	46.1 nM	2.73

FIG. 18D



sBCMA: EC₅₀ (nM):

●	0 nM	0.42
■	2.1 nM	0.52
▲	6.2 nM	0.54
◆	18.5 nM	0.51
▼	55.5 nM	0.58
○	166.5 nM	0.80

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FIG. 19A

BCMA Binding to Plate Captured APRIL (n=2)

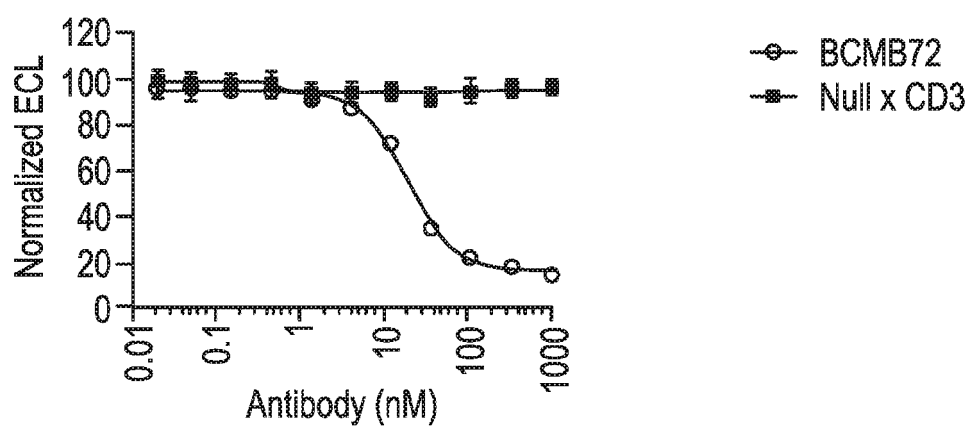


FIG. 19B

BCMA Binding to Plate Captured BAFF (n=2)

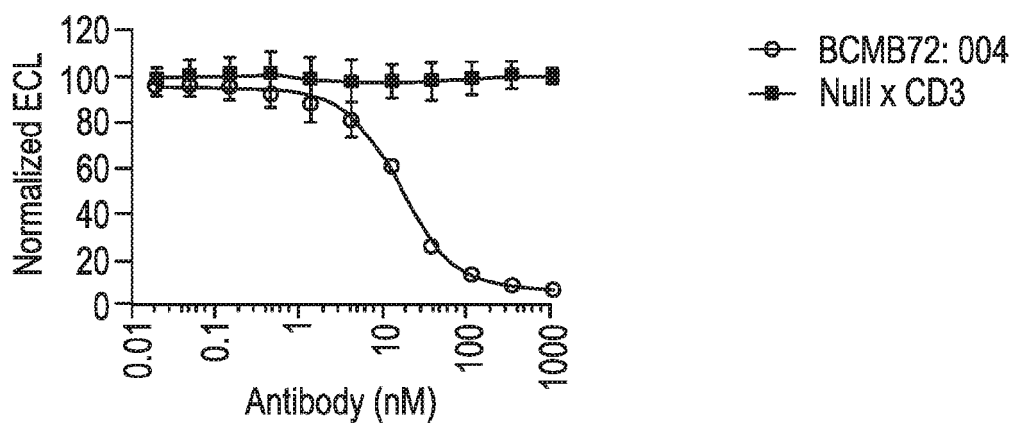


FIG. 20A

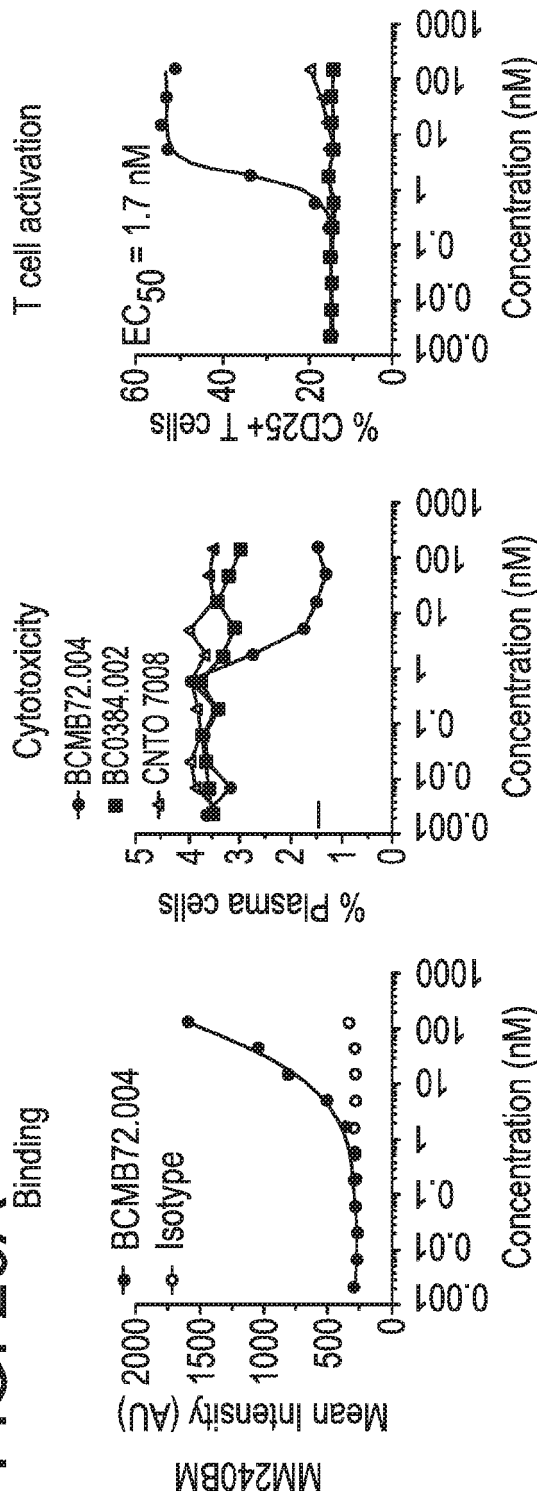
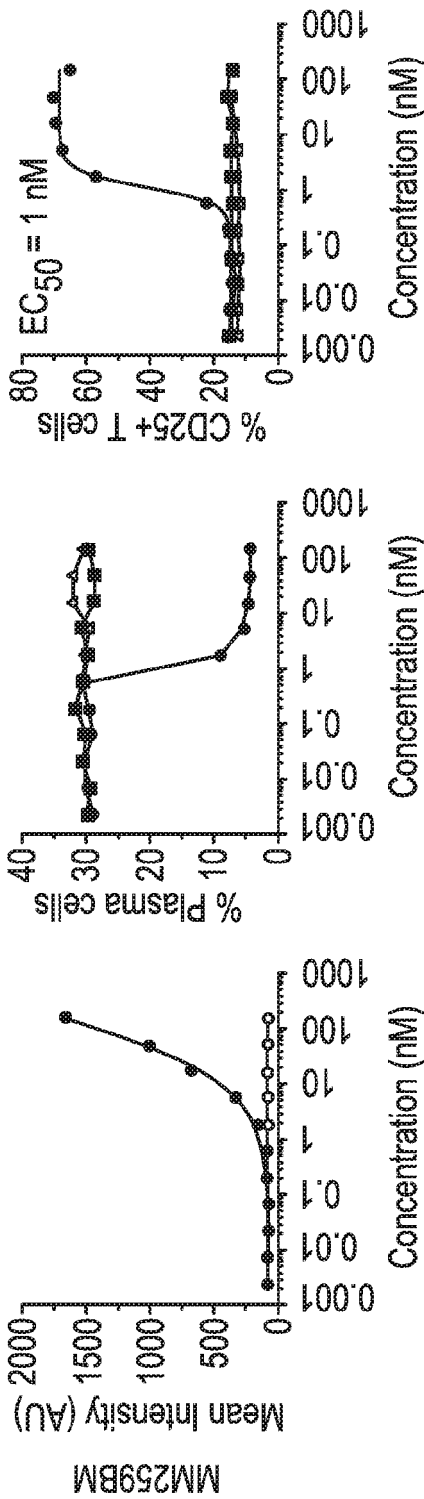


FIG. 20B



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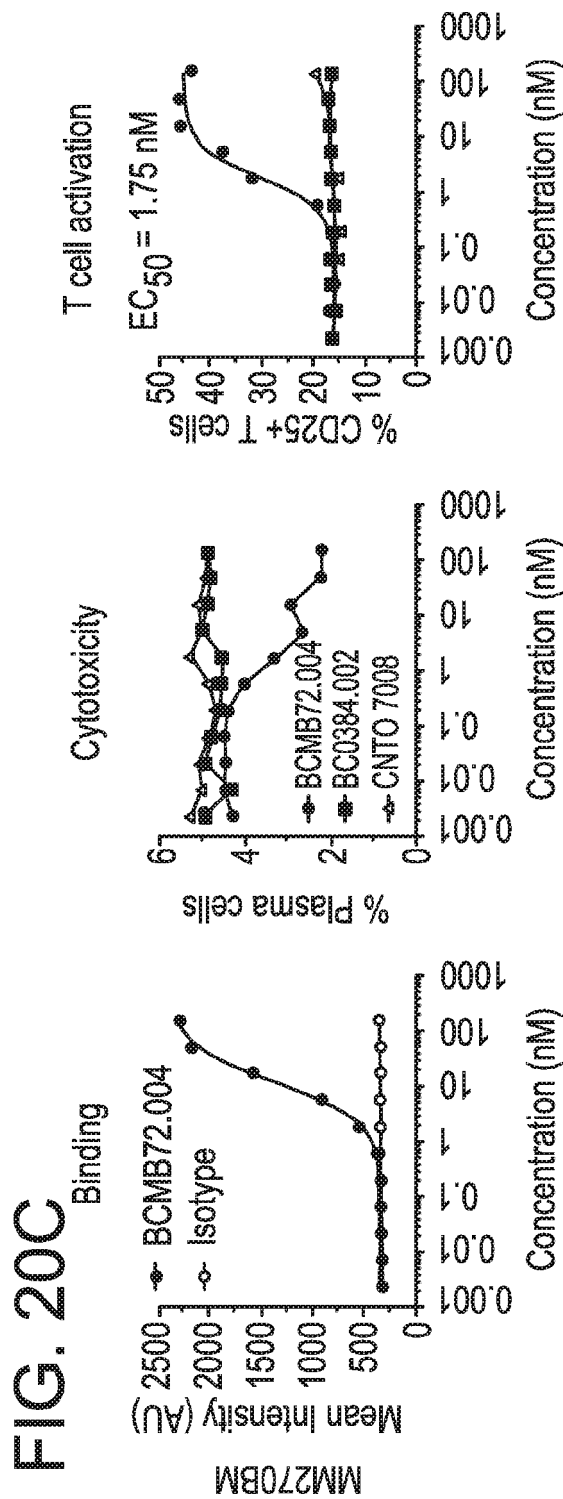
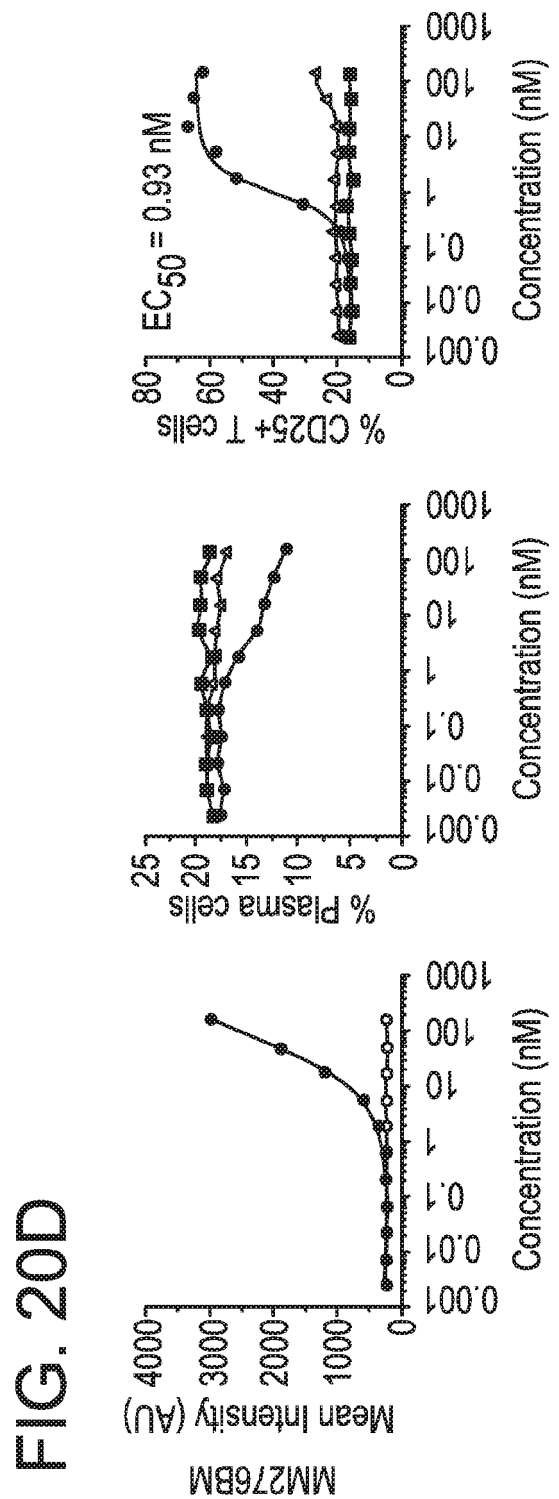
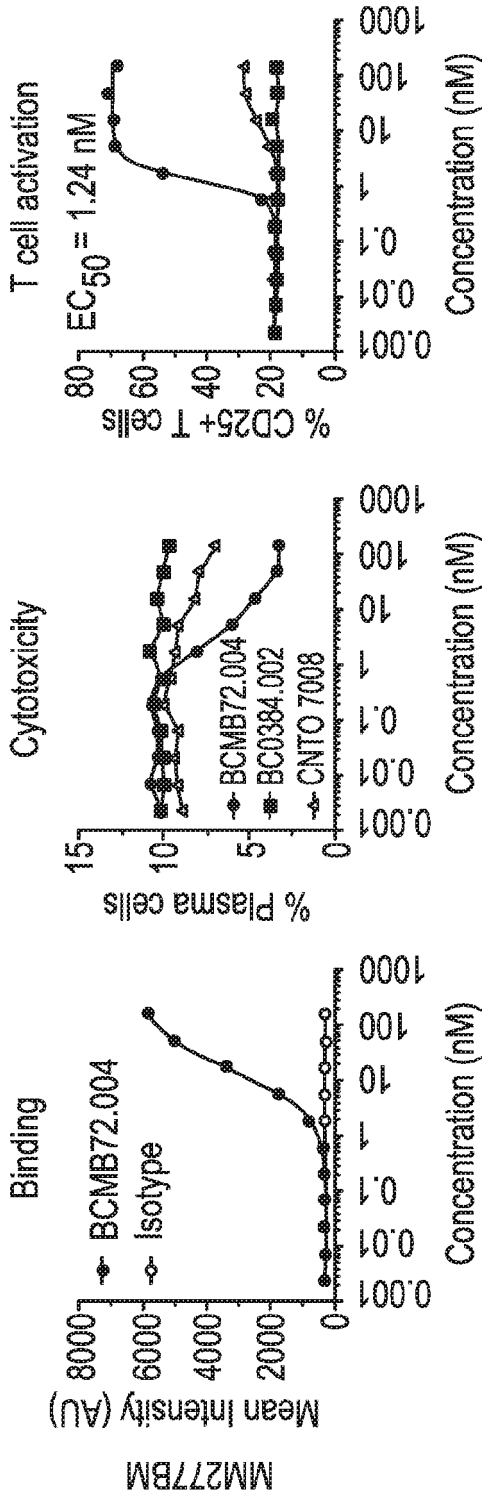


FIG. 20E



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FIG. 21

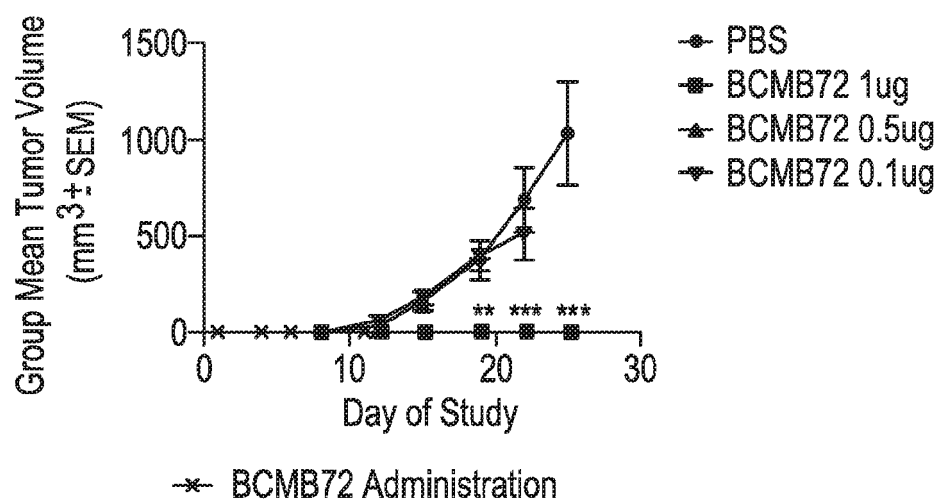


FIG. 22

