

FIG. 1A

Clone ID	SEQ ID NO	CDR1 seq	CDR2 seq	CDR3 seq
313306	SEQ ID NO. 1	GGSIRSGGHY	IHHSGST	ARWRHDI FTTPYYYYGMDV
313299	SEQ ID NO. 2	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
313289	SEQ ID NO. 3	GGSISSGGHY	IYHSGST	GRWRHDILTAYPYYYYGMDV
313288	SEQ ID NO. 4	GGSISSSSHY	IYYSGST	ARWRHDI FAAYPYYYYGMDV
313334	SEQ ID NO. 5	GGSIRSGGHY	IHRSGNP	ARWRHDILTAYPYYYYGMDV
313329	SEQ ID NO. 6	GGSISSGGHY	IHHSGST	ARWRHDI FAAYPYYYYGMDV
304713	SEQ ID NO. 7	GGSISSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
313347	SEQ ID NO. 8	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
304661	SEQ ID NO. 9	GGSISSGGHY	ISYSGRT	ARWRHDILTAYPYYYYGMDV
304623	SEQ ID NO. 10	GGSIRSGGHY	ISYSGST	ARWRHDI FTTPYYYYGMDV
304622	SEQ ID NO. 11	GGSISSGGHY	IHRSGNP	ARWRHDILTGY PYYYYGMDV
313308	SEQ ID NO. 12	GGSIRSGGHY	IHHSGST	ARWRHDILTAYPYYYYGMDV
314171	SEQ ID NO. 13	GGSIRSGGHY	IHRSGNP	ARWRHDI FAAYPYYYYGMDV
304689	SEQ ID NO. 14	GGSIRSGGHY	IHRSGNP	ARWRHDILTGY PYYYYGMDV
304704	SEQ ID NO. 15	GGSIRSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
313354	SEQ ID NO. 16	GGSIRSGGHY	ISYSGST	GRWRHDILTAYPYYYYGMDV
313366	SEQ ID NO. 17	GGSIRSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
313283	SEQ ID NO. 18	GGSIRSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
304662	SEQ ID NO. 19	GGSIRSGGHY	IYHSGST	GRWRHDILTGY PYYYYGMDV
313322	SEQ ID NO. 20	GGSIRSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
313365	SEQ ID NO. 21	GGSIRSGGHY	IYYSGST	ARWRHDILTAYPYYYYGMDV
313340	SEQ ID NO. 22	GGSIRSGGHY	IYYSGST	ARWRHDILTRY PYYYYGMDV
313277	SEQ ID NO. 23	GGSIRSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
304690	SEQ ID NO. 24	GGSISSGGHY	IYHSGST	ARWRHDILTGY PYYYYGMDV
313355	SEQ ID NO. 25	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
313310	SEQ ID NO. 26	GGSIRSGGHY	IYHSGST	GRWRHDILTAYPYYYYGMDV
313338	SEQ ID NO. 27	GGSIRSGGHY	IYHSGST	ARWRHDILTVP YYYYYGMDV
313341	SEQ ID NO. 28	GGSIRSGGHY	IHHSGST	ARWRHDI FAAYPYYYYGMDV
313272	SEQ ID NO. 29	GGSIRSGGHY	IHRSGNP	ARWRHDILTAYPYYYYGMDV
313320	SEQ ID NO. 30	GGSIRSGGYY	IYHSGST	ARWRHDILTAYPYYYYGMDV
304670	SEQ ID NO. 31	GGSISSGGHF	IHHSGST	ARWRHDILTGY PYYYYGMDV
304701	SEQ ID NO. 32	GGSISSGGHF	IYHSGST	ARWRHDILTGY PYYYYGMDV
313301	SEQ ID NO. 33	GGSISSGGHF	IYHSGST	ARWRHDILTAYPYYYYGMDV
313361	SEQ ID NO. 34	GGSISSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
313305	SEQ ID NO. 35	GGSISSGGHY	IHHSGST	ARWRHDILTAYPYYYYGMDV
313357	SEQ ID NO. 36	GGSISSGGHY	IHHSGST	ARWRHDI FAAYPYYYYGMDV
313315	SEQ ID NO. 37	GGSISSGGHY	IHRSGNP	ARWRHDILTAYPYYYYGMDV
313318	SEQ ID NO. 38	GGSISSGGHY	IHRSGNP	ARWRHDILTAYPYYYYGMDV
304703	SEQ ID NO. 39	GGSISSGGHY	IHYSGST	ARWRHDI FAAYPYYYYGMDV
304691	SEQ ID NO. 40	GGSISSGGHY	ISYSGST	ARWRHDILTGY PYYYYGMDV
313295	SEQ ID NO. 41	GGSISSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
313335	SEQ ID NO. 42	GGSISSGGHY	IYHSGIT	ARWRHDILTAYPYYYYGMDV
313297	SEQ ID NO. 43	GGSISSGGHY	IYHSGNT	ARWRHDILTAYPYYYYGMDV

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FIG. 1A (cont)

313313	SEQ ID NO. 44	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
313342	SEQ ID NO. 45	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
304621	SEQ ID NO. 46	GGSISSGGHY	IYHSGST	ARWRHDILTGYPPYYYYGMDV
313349	SEQ ID NO. 47	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
304653	SEQ ID NO. 48	GGSISSGGHY	IYHSGST	ARWRHDILTGYPPYYYYGMDV
304628	SEQ ID NO. 49	GGSISSGGHY	IYHSGST	GRWRHDILTGYPPYYYYGMDV
304669	SEQ ID NO. 50	GGSISSGGHY	IYHSGST	GRWRHDILTGYPPYYYYGMDV
313293	SEQ ID NO. 51	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
304709	SEQ ID NO. 52	GGSISSGGHY	IYHSGST	ARWRHDILTGYPPYYYYGMDV
313286	SEQ ID NO. 53	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
313307	SEQ ID NO. 54	GGSISSGGHY	IYYSGST	ARWRHDILTAYPYYYYGMDV
313346	SEQ ID NO. 55	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
313339	SEQ ID NO. 56	GGSISSGGHY	IYYSGST	ARWRHDILTAYPYYYYGMDV
313324	SEQ ID NO. 57	GGSISSGGHY	IHHSGST	ARWRHDILTAYPYYYYGMDV
304639	SEQ ID NO. 58	GGSISSGGHY	ISYSGST	ARWRHDILTGYPPYYYYGMDV
304625	SEQ ID NO. 59	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
304640	SEQ ID NO. 60	GGSISSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
304692	SEQ ID NO. 61	GGSISSGGHY	IYHSGST	ARWRHDILTAYPYYYYGMDV
304627	SEQ ID NO. 62	GGSISSGGHY	IYHSGST	ARWRHDILTGYPPYYYYGMDV
303415	SEQ ID NO. 63	GGSISSGGHY	IYHSGST	ARWRHDILTGYPPYYYYGMDV
304697	SEQ ID NO. 64	GGSISSGGHY	IYHSGST	ARWRHDILTGYPPYYYYGMDV
303446	SEQ ID NO. 65	GGSISSGGHY	IYYSGST	ARWRHDILTAYPYYYYGMDV
304664	SEQ ID NO. 66	GGSISSGGHY	IHRSGNP	ARWRHDILTGYPPYYYYGMDV
303416	SEQ ID NO. 67	GGSISSGGHY	ISYSGST	ARWRHDILTAYPYYYYGMDV
304707	SEQ ID NO. 68	GGSISSGGHY	IYHSGST	ARWRHDILTGYPPYYYYGMDV

FIG. 1B

312325	SEQ ID NO:19	QSVSSN	GAS	QQYNNWPWT
308902- bivalent	SEQ ID NO:20	GFTVSSYG	IRGSDGST	AKQGENDGPFDH
308902	SREQ ID NO:21	GFTVSSYG	IRGSDGST	AKQGENDGPFDH

FIG. 2A

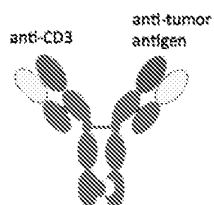


FIG. 2B

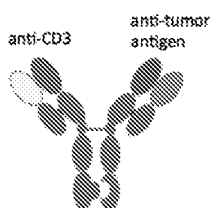


FIG. 2C

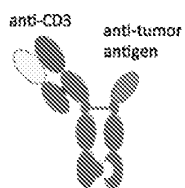


FIG. 2D

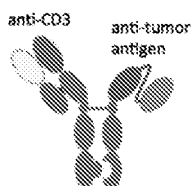


FIG. 2E

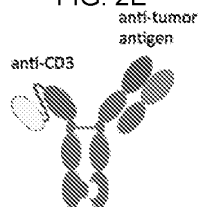


FIG. 3

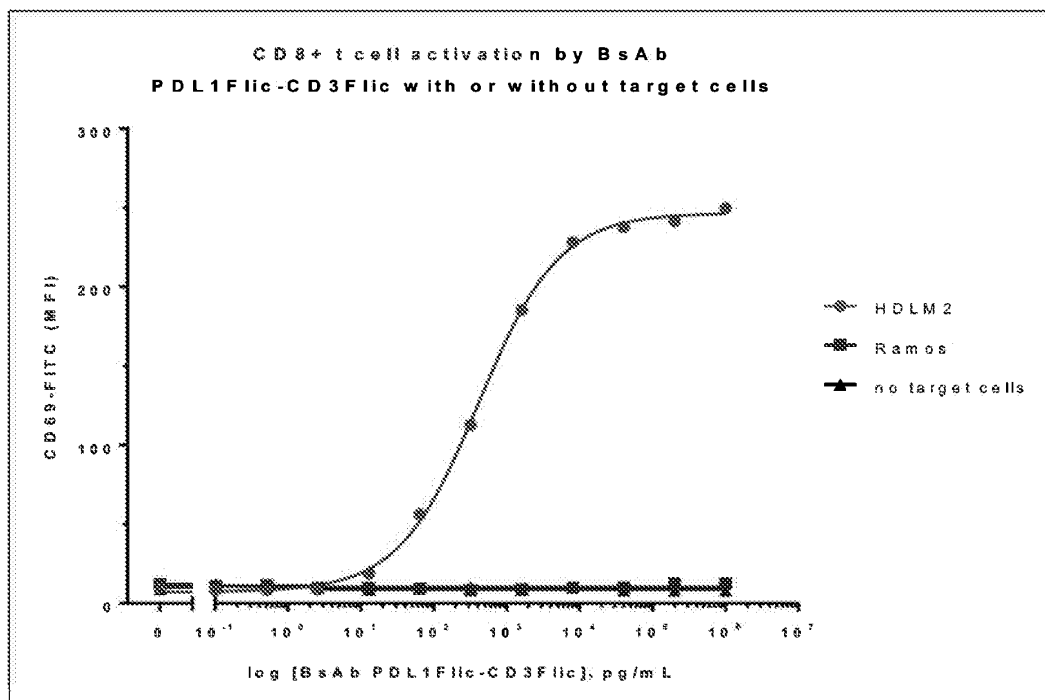


FIG. 4

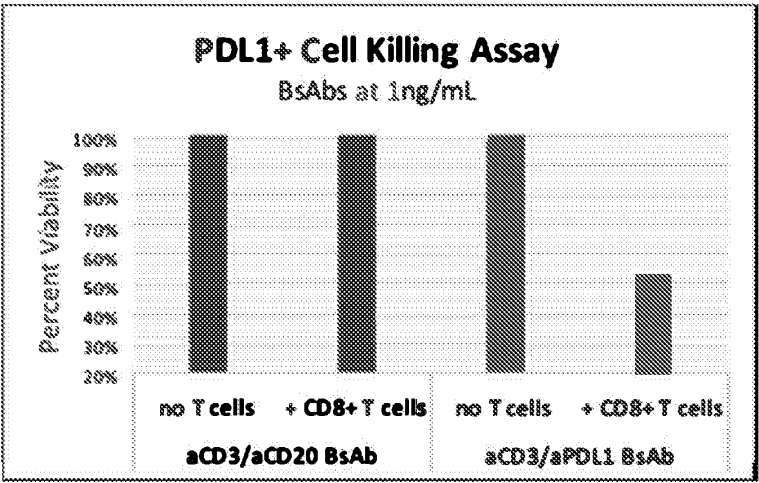


FIG. 5

1	2	3	4	5	6	7	8	9	10	11	12	13
PARENTAL ANTI-CD3 ANTIBODY			ANTI-CD3/ANTI-BCMA BISPECIFIC ANTIBODY									
	Jurkat cell	Cyno T-cell		IL-2	IL-6	IL-10	IFN γ	TNF α				
anti-CD3 ID	bind (MFI)	bind (MFI)	at BsAb dose ng/mL						kill EC50 (ng/mL)	%kill (333ng/mL)	KD (nM)	Jurkat cell bind (MFI)
304703	15.9	26.2	CD3_F1A-BCMA	212.4	0.4	46.5	746	1844	6.4	71.4	98	149.4
314171	16.0	143.9	CD3_F1E-BCMA	209.6	1.2	89.5	724	1487	0.1	54.7	21	110.4
313306	18.4	71.7	CD3_F1F-BCMA	341.8	1.4	90.0	865	1415	0.3	63.5	22.0	412.2
313329	24.2	17.4	CD3_F1G-BCMA	344.4	1.2	123.1	1044	1973	0.2	57.3	97.5	343.2
313283	9.9	1.1	CD3_F1H-BCMA	6.9	0.3	0.4	144	328	31.0	42.3	749	12.8

FIG. 6

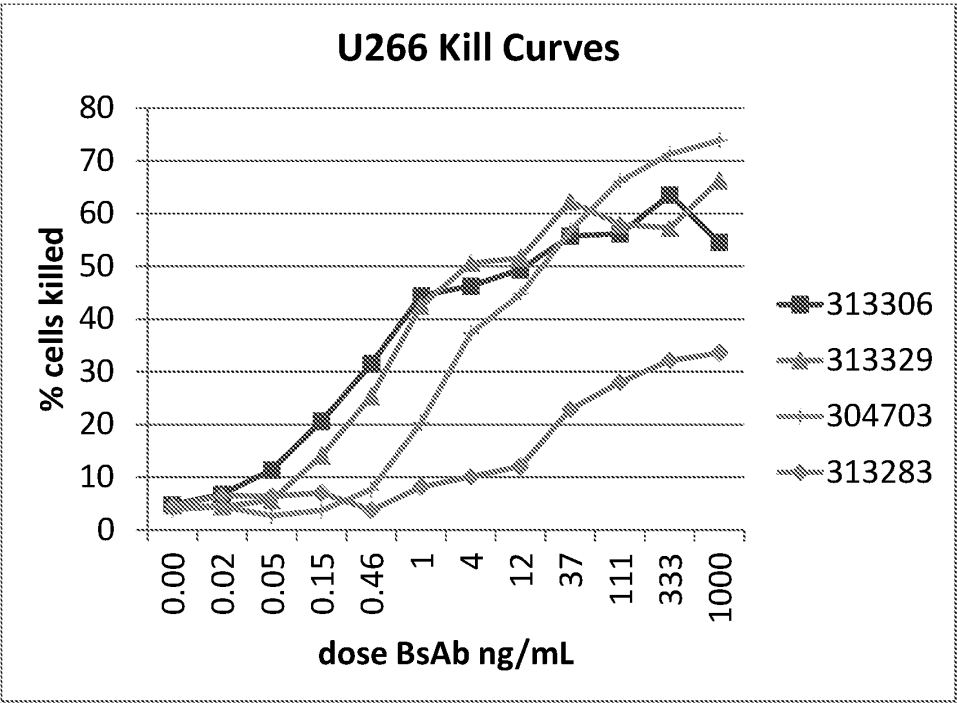


FIG. 7

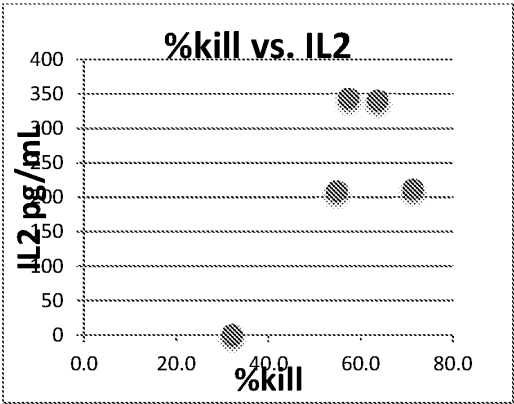


FIG. 8

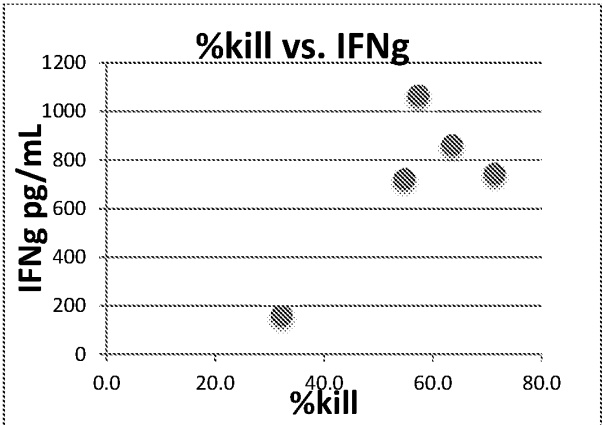


FIG. 9

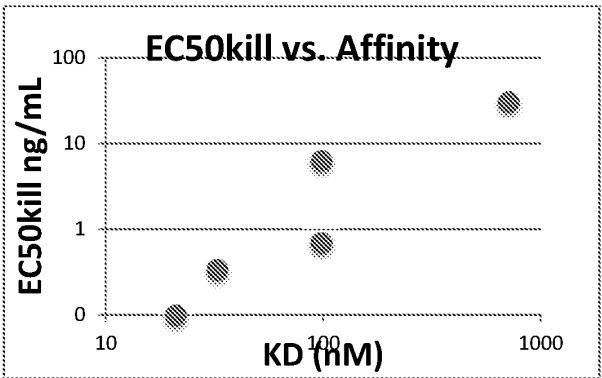


FIG. 10A

RPMI-8226

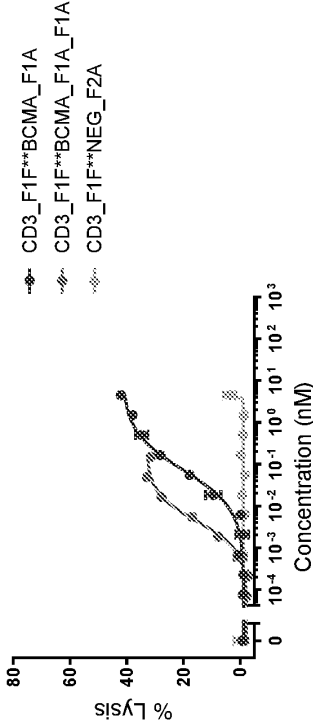


FIG. 10B

NCI-H929

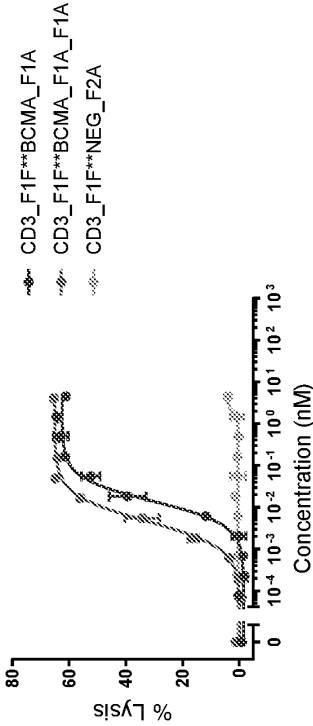


FIG. 10C

U-266

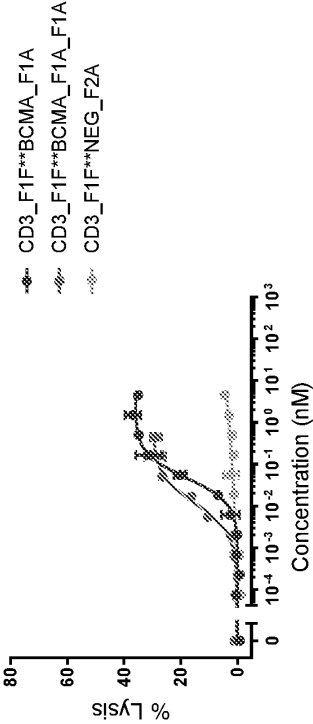


FIG. 10D

K562

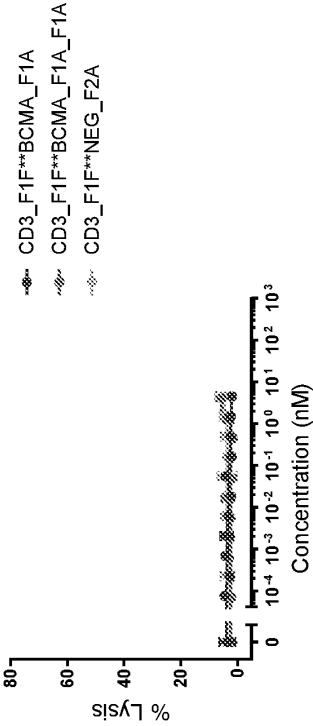


FIG. 11A

RPMI-8226

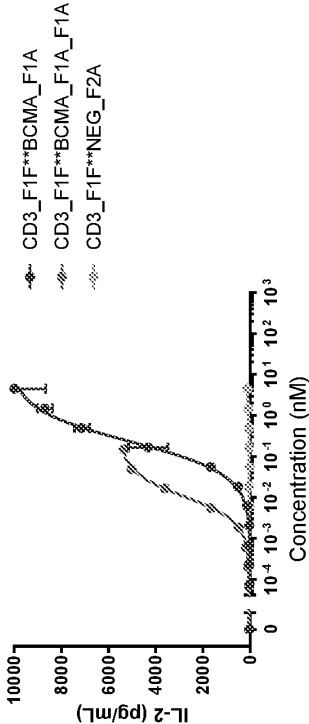


FIG. 11B

NCI-H929

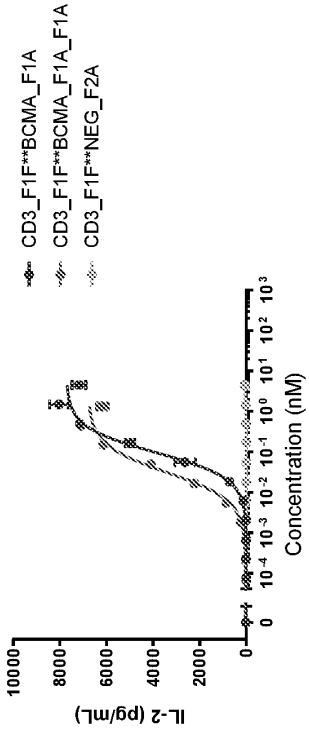


FIG. 11C

U-266

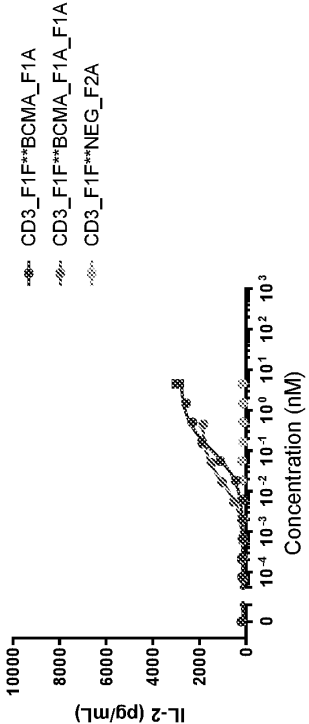


FIG. 11D

K562

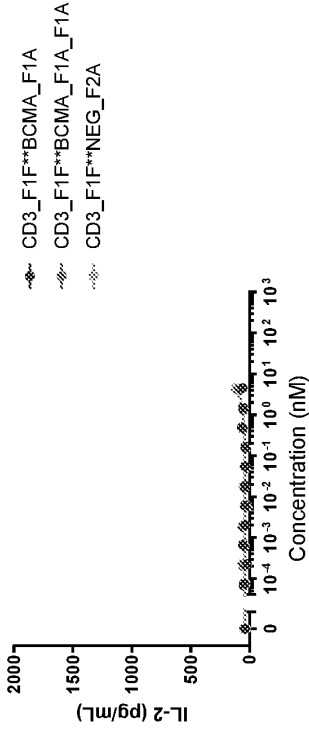


FIG. 12A

RPMI-8226

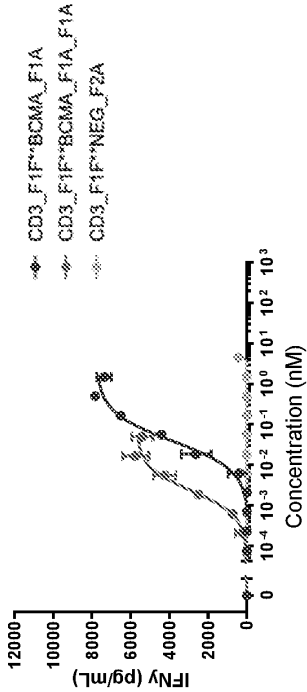


FIG. 12B

NCI-H929

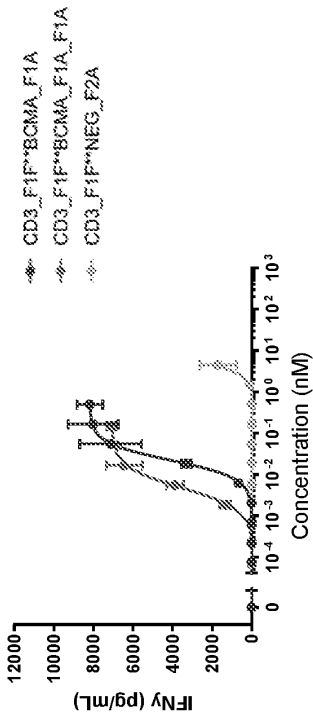


FIG. 12C

U-266

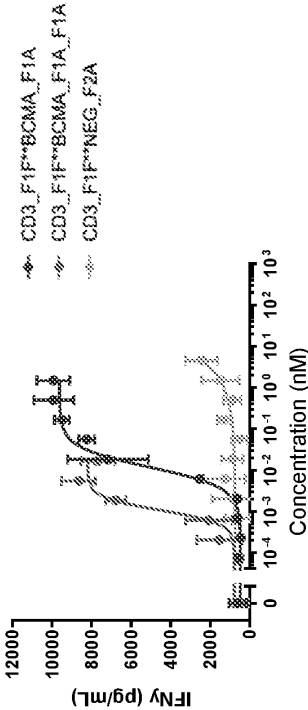


FIG. 12D

K562

