

FIG. 1A-1

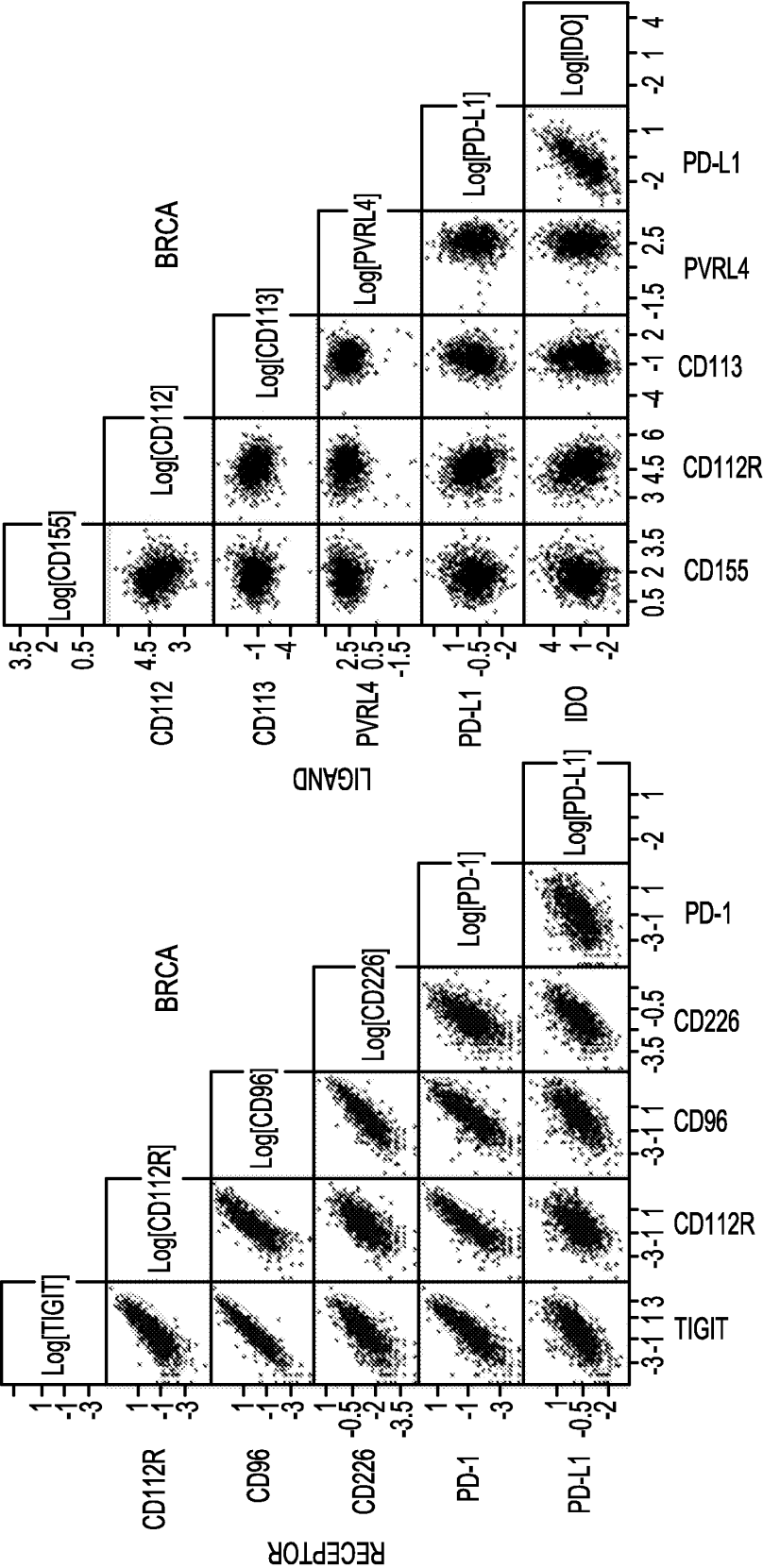


FIG. 1A-2

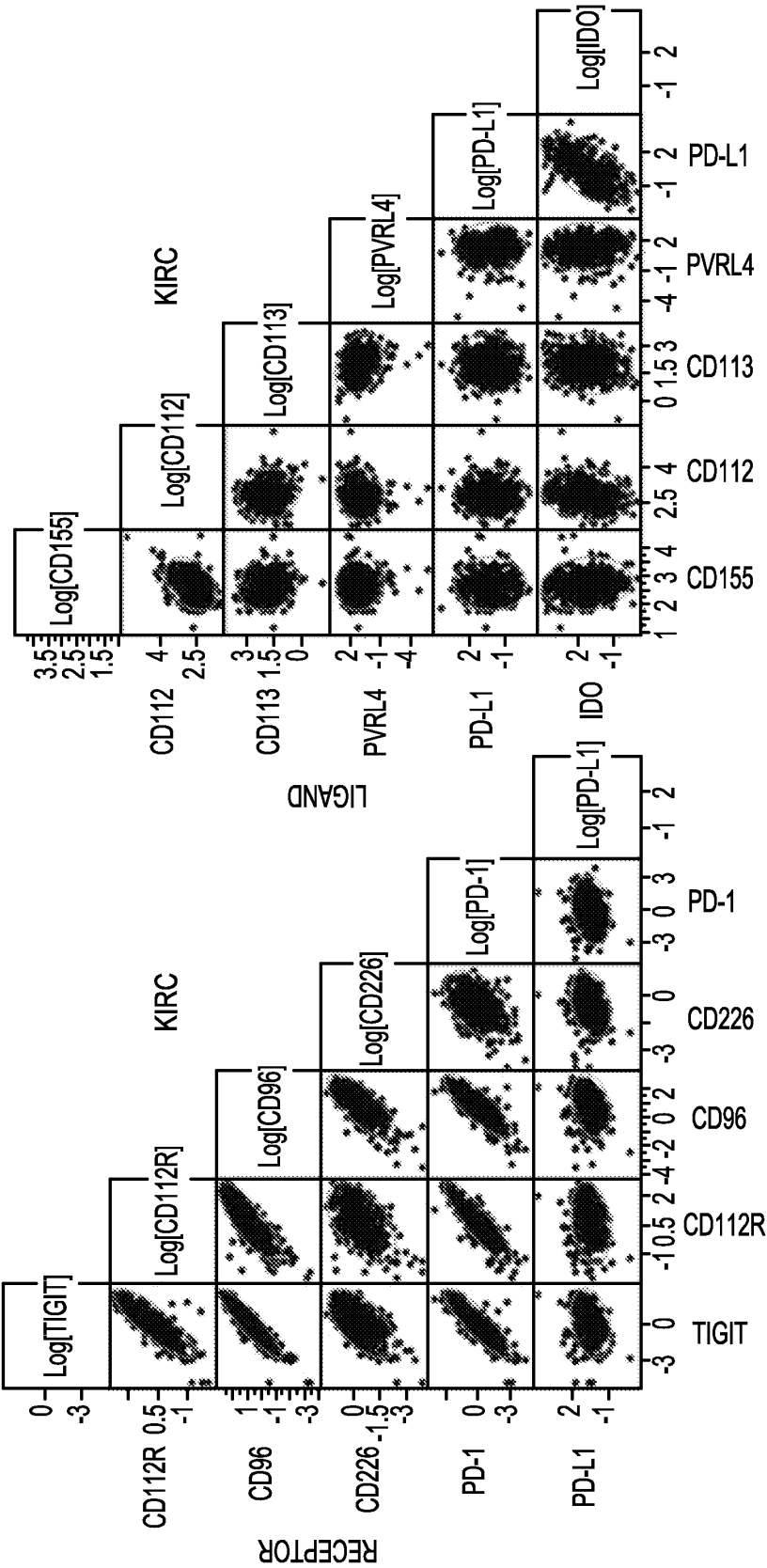


FIG. 1A-3

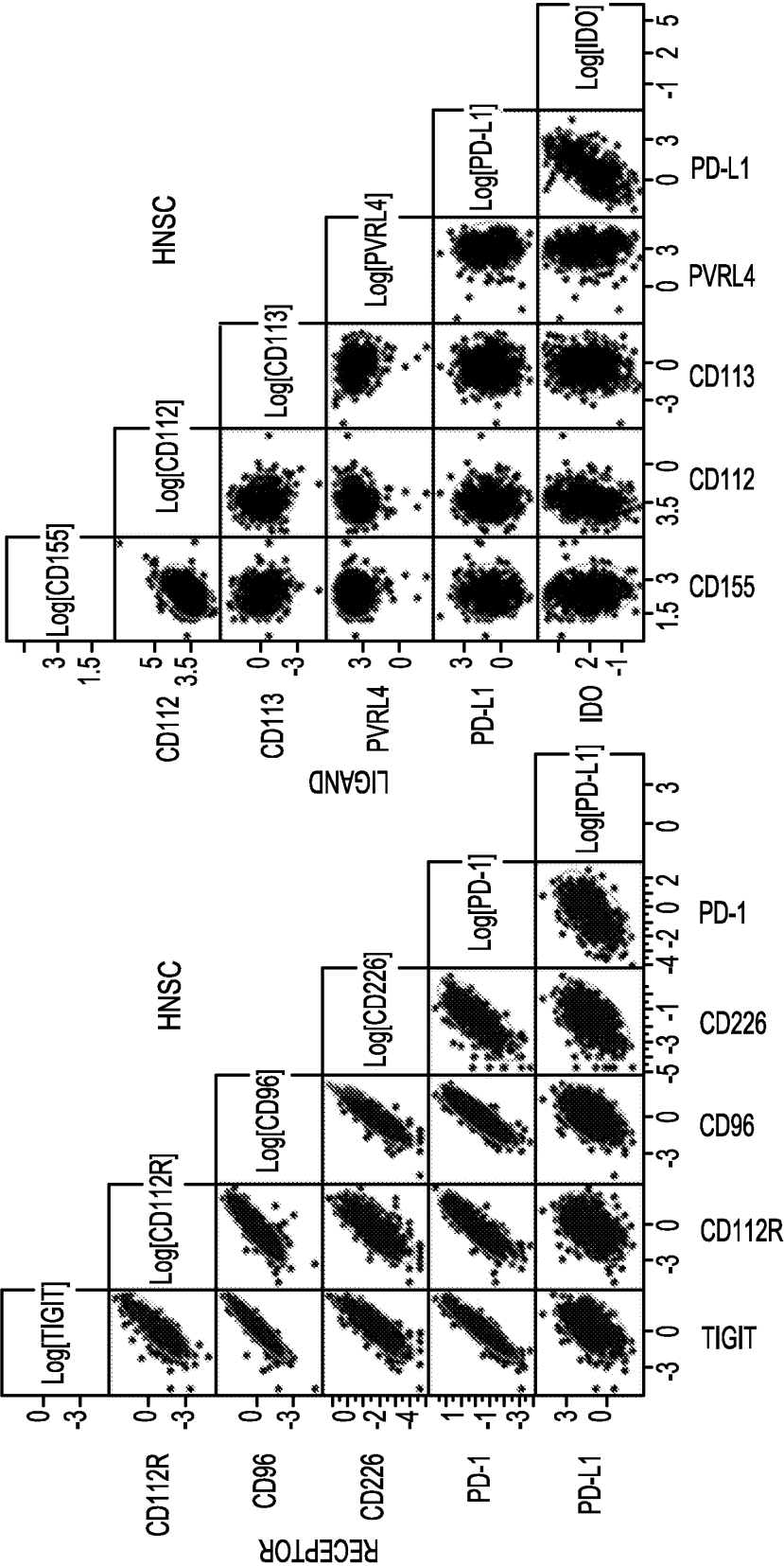


FIG. 1A-4

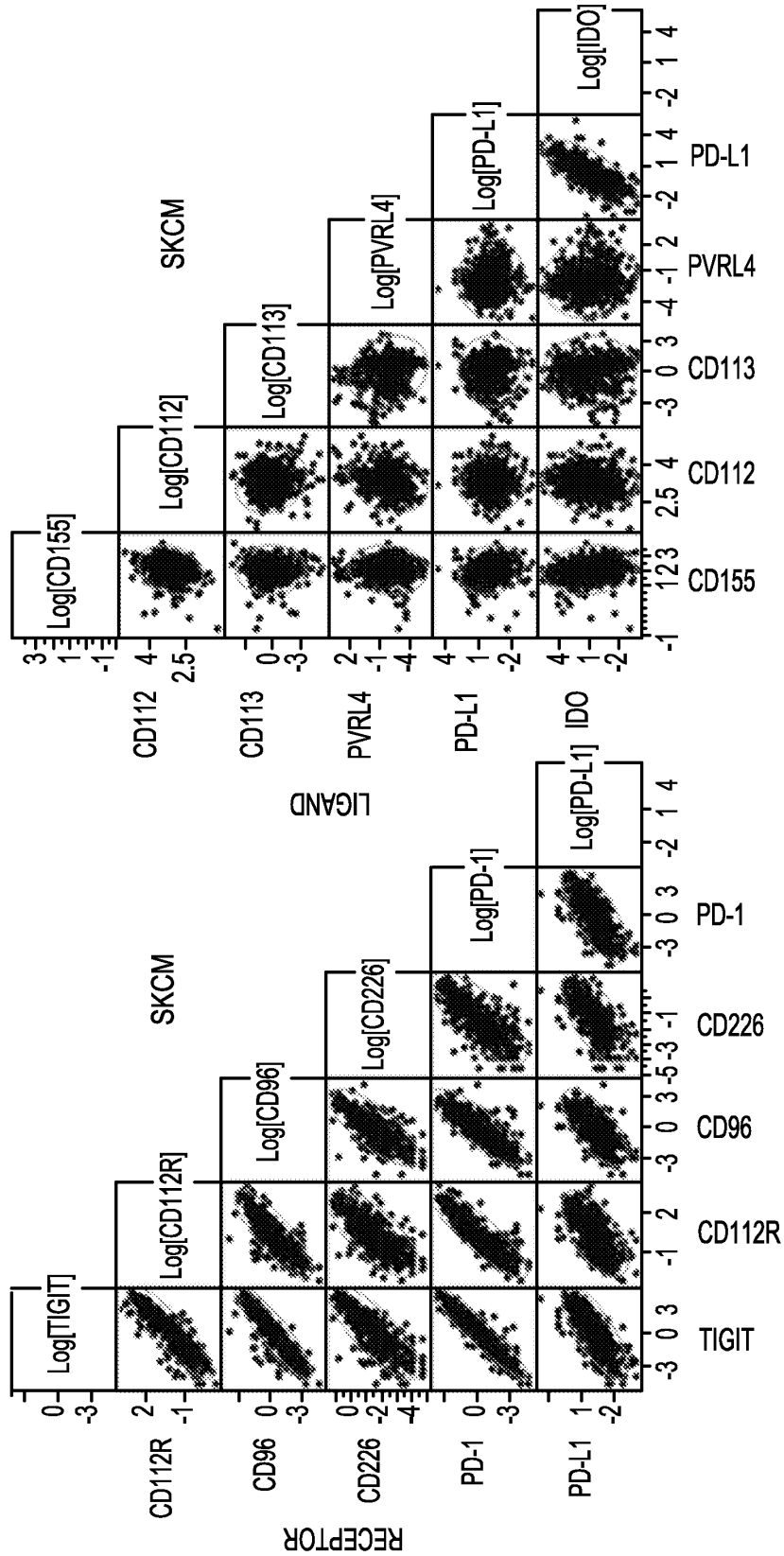


FIG. 1B

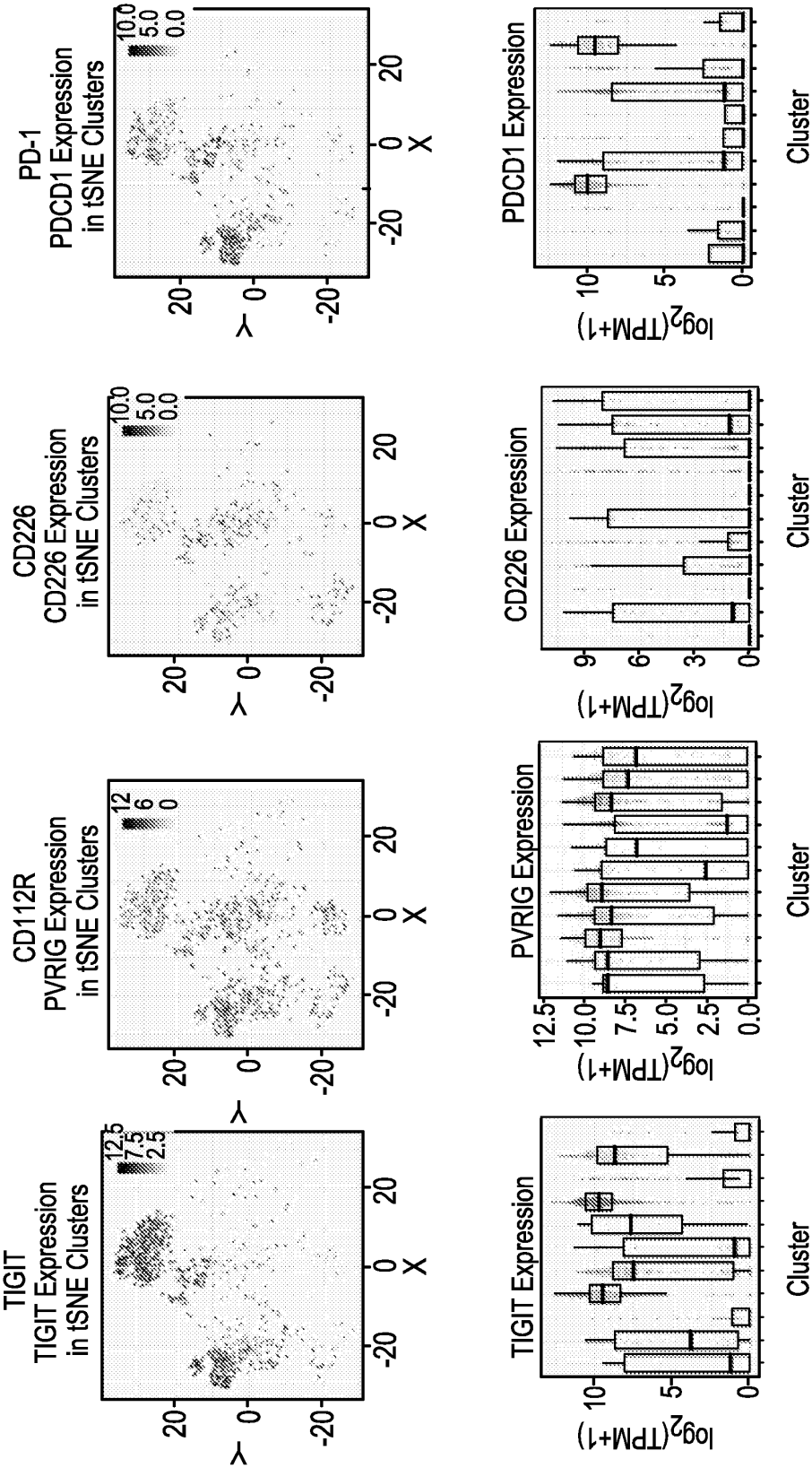


FIG. 1C

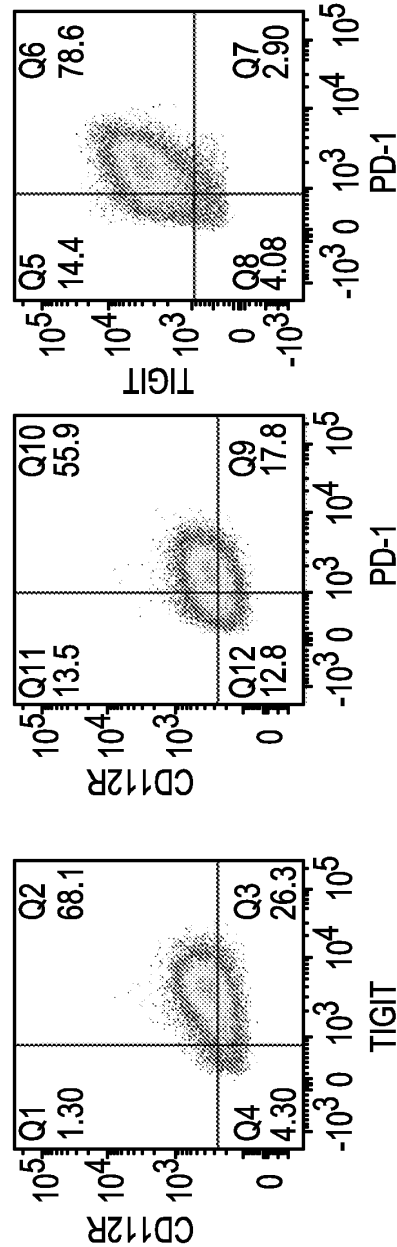


FIG. 1D

	CD112R+(%)		TIGIT+(%)		PD-1+(%)	
CD4T	2.5	1.6	3.2	22.2	0.13	47.9
CD8T	1.78	1.17	0	1.19	0.63	33
NK	7.31	2.85	3.91	10.8	0.1	16.8

FIG. 1E

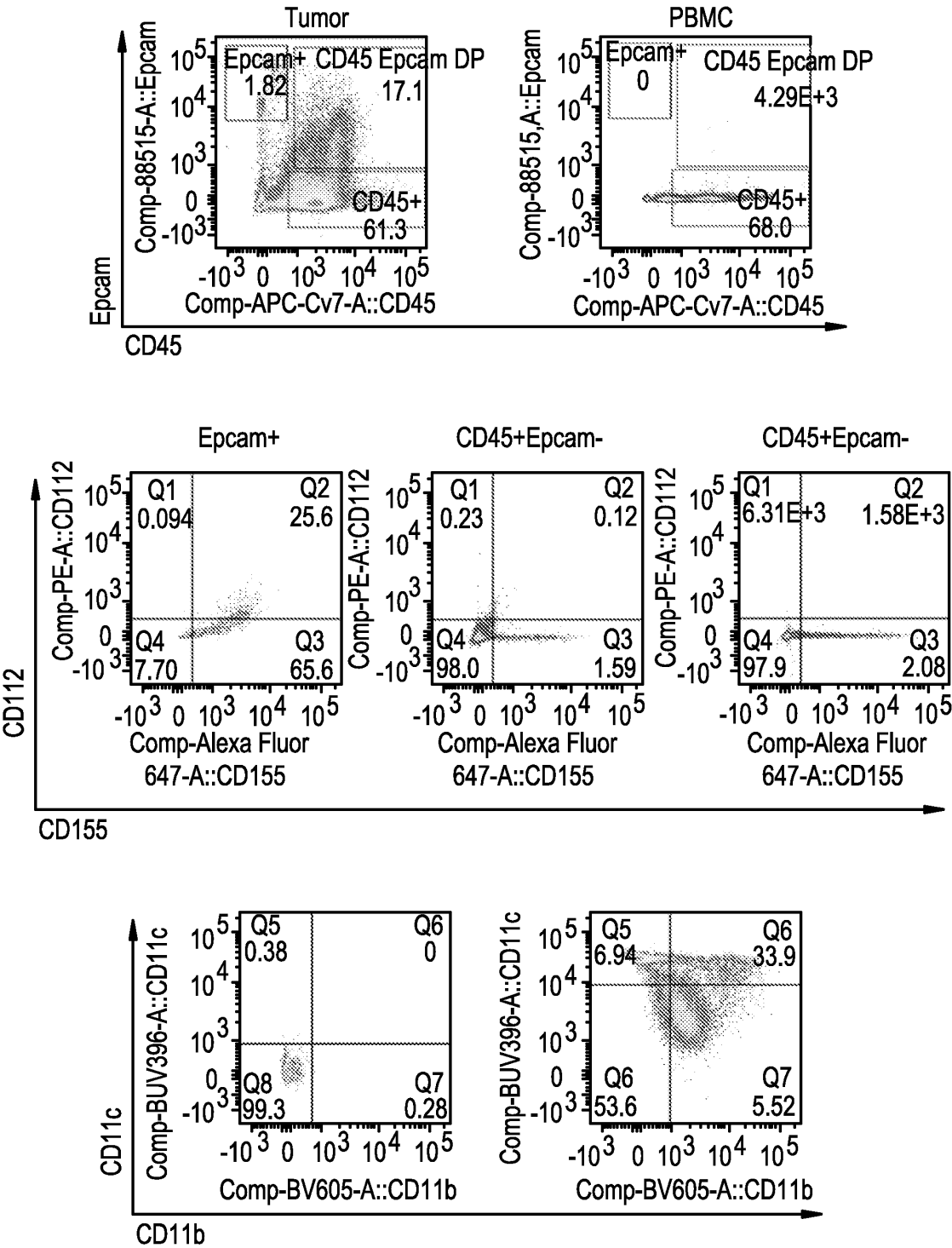


FIG. 2A

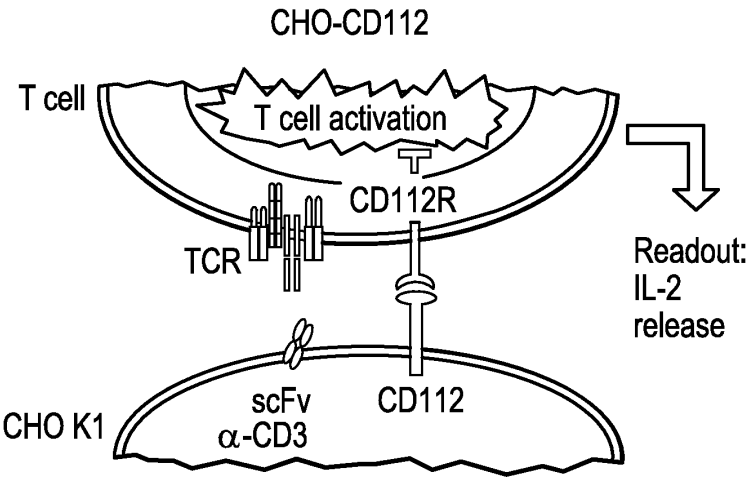


FIG. 2B

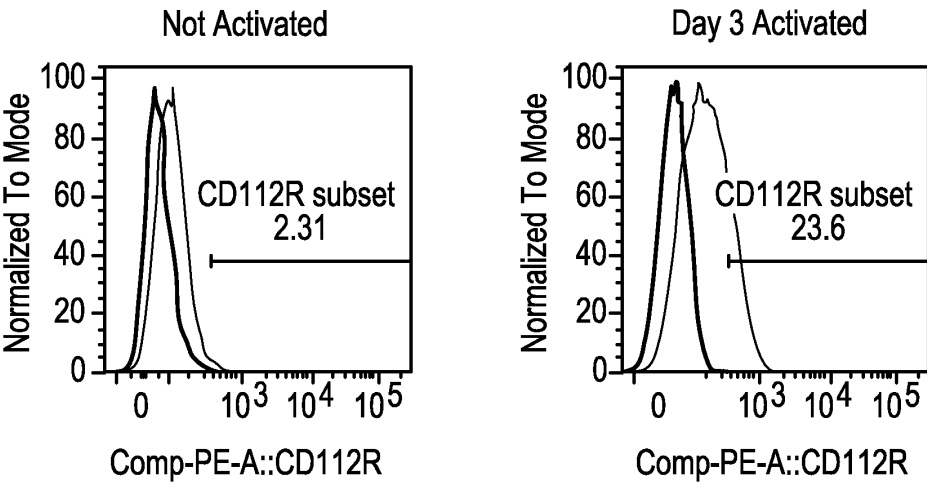


FIG. 2C

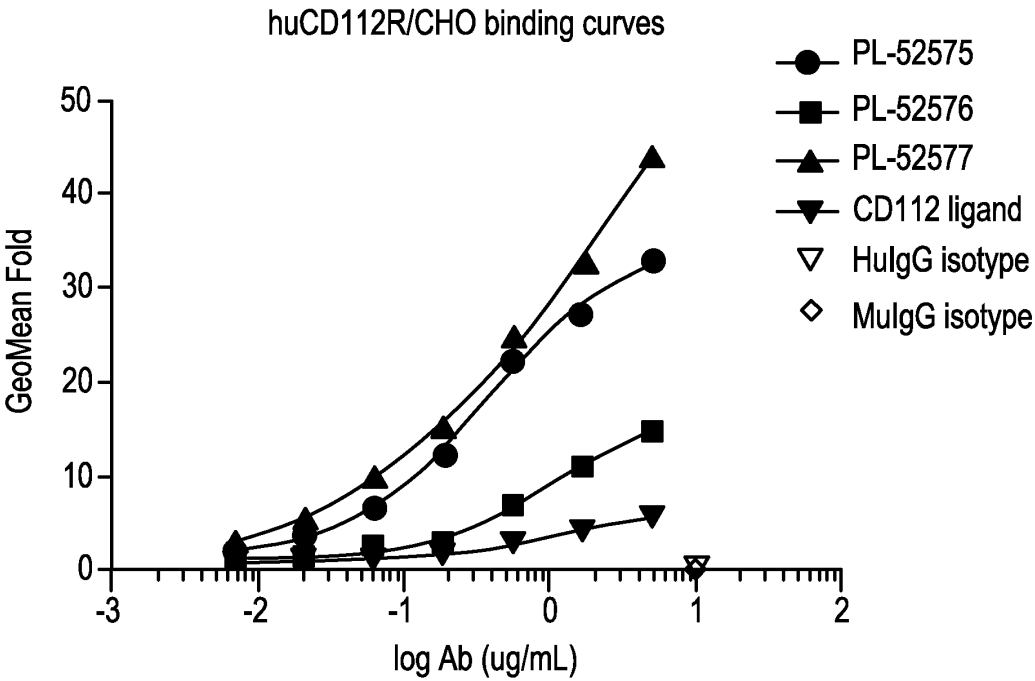


FIG. 2D

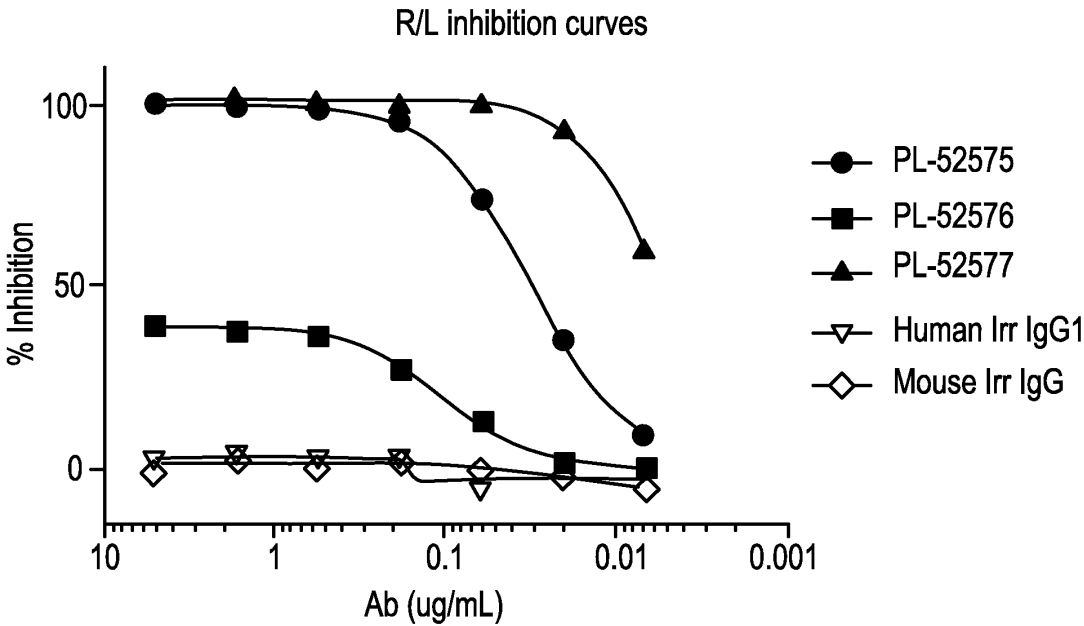
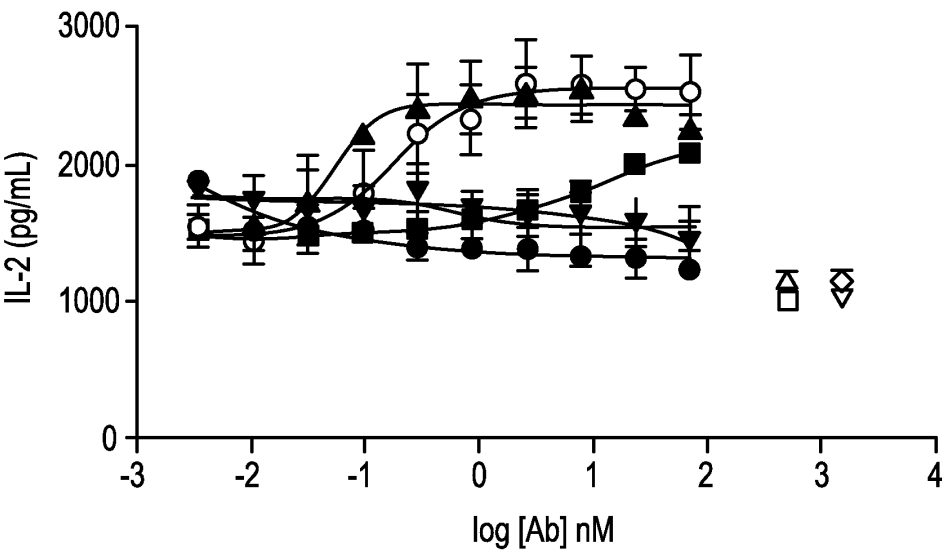


FIG. 2E



	PL-52575	PL-52576	PL-52577
EC50 (nM)	0.1822	12.73	0.05351

- ▼ Vector PL-52575
- ◆ Vector PL-52576
- Vector PL-52577
- CD112 PL-52575
- CD112 PL-52576
- ▲ CD112 PL-52577
- Vector HulgG
- △ Vector MulgG
- ▽ CD112 HulgG
- ◇ CD112 MulgG

FIG. 2F

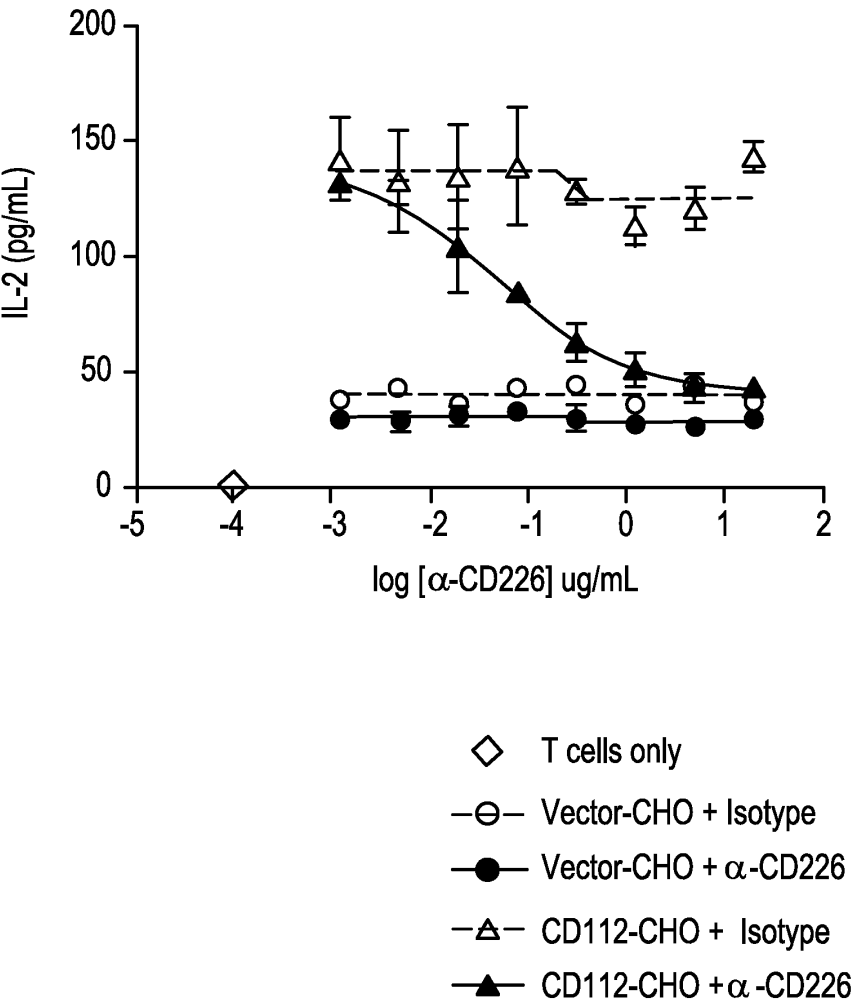


FIG. 3

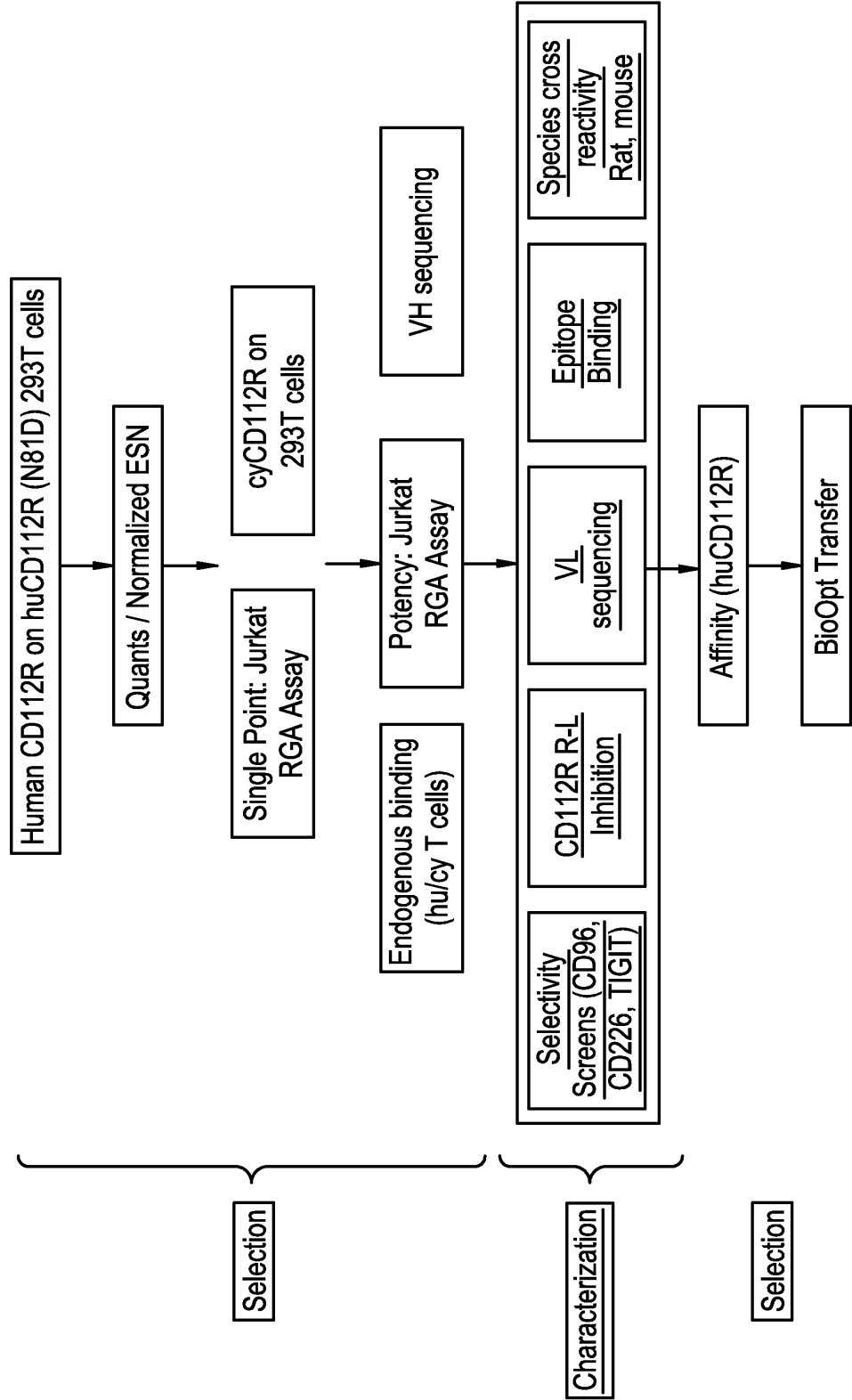


FIG. 4A

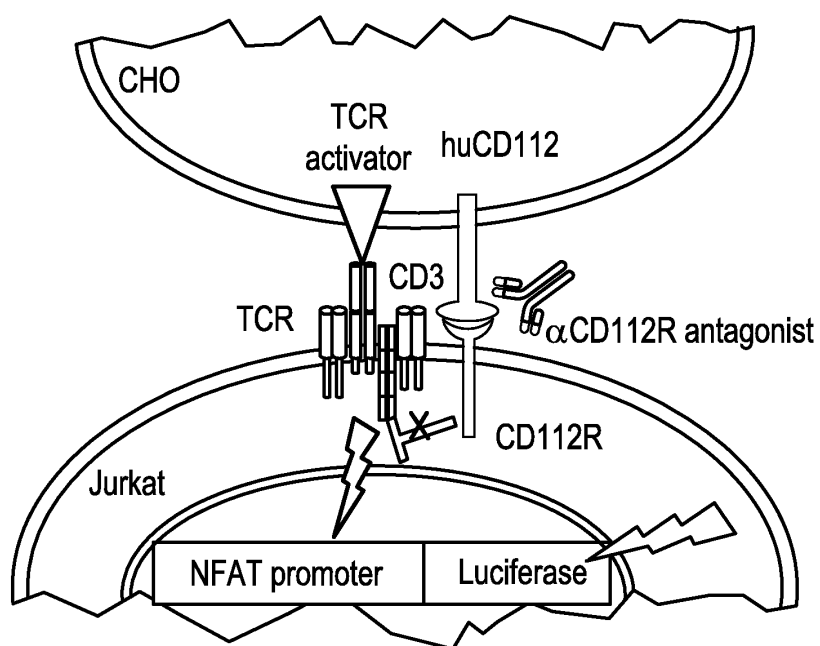


FIG. 4B

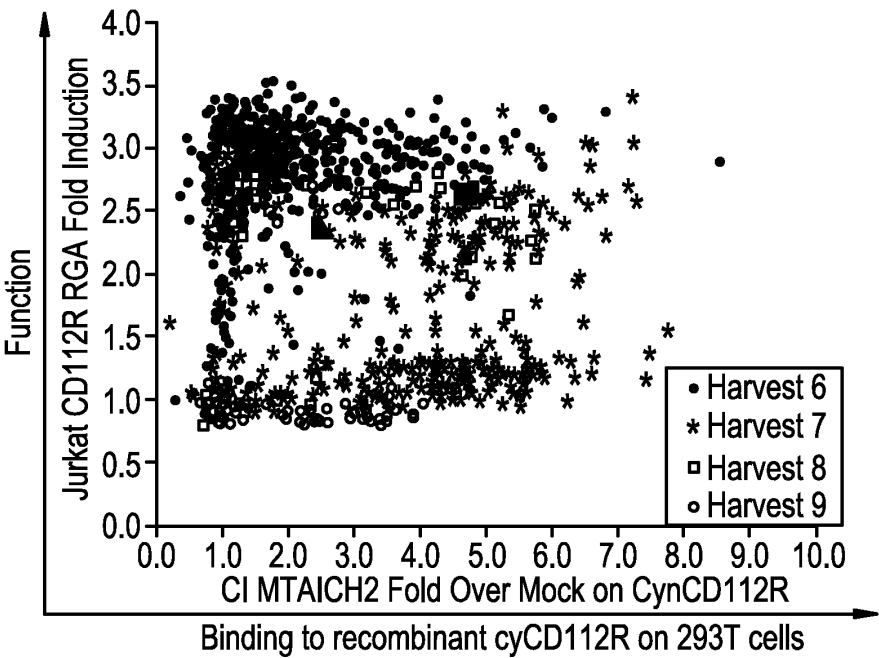


FIG. 4C

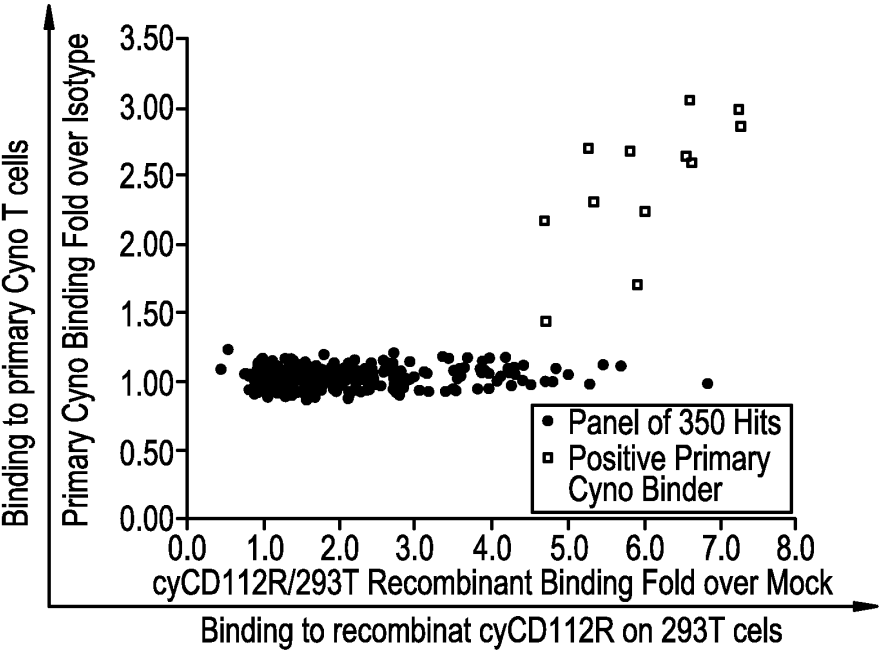


FIG. 5A

Table 1A - Wave 1 -Xenomouse Immunizations

Campaign and harvest	Strain	Immunogen	huCD112R/293T Ag+ hits, early primary	Functional hits (Jurkat CD112R Reporter)	Recombinant cyCD112R/293T	Primary cy CD112R binders
Harvest 1	XMG2/XMG4	DNA	216	216	138	1
Harvest 2	XMG2kl	Soluble	539			1
Harvest 3	XMG2/XMG4	DNA and soluble	469		136	0

Cy = cynomolgus monkey; hu=human

FIG. 5B

Table 1B - Wave 2- CD112R KO and expanded Xenomouse Immunizations

HUcd112R Hybrid pools	Strain	# animals	Immunogen	huCD112R/293T Ag+ hits, early primary	Functional hits (Jurkat CD112R Reporter)	Recombinant cyCD112R/293T	Primary cy CD112R binders
Harvest 6	XMG2 CD112R KO	1	Soluble	887	323	86	4
Harvest 7	XMG2kl	12	DNA	308	13	220	23
Harvest 8	XMG2 CD112R KO	9	DNA	51	10	18	0
Harvest 9	XMG2 CD112R KO	3	Soluble	59	4	12	0

Cy = cynomolgus monkey; hu = human; KO = Knock out

FIG. 6

Relative ranking of antibodies to 100pM human CD112R
benchmark

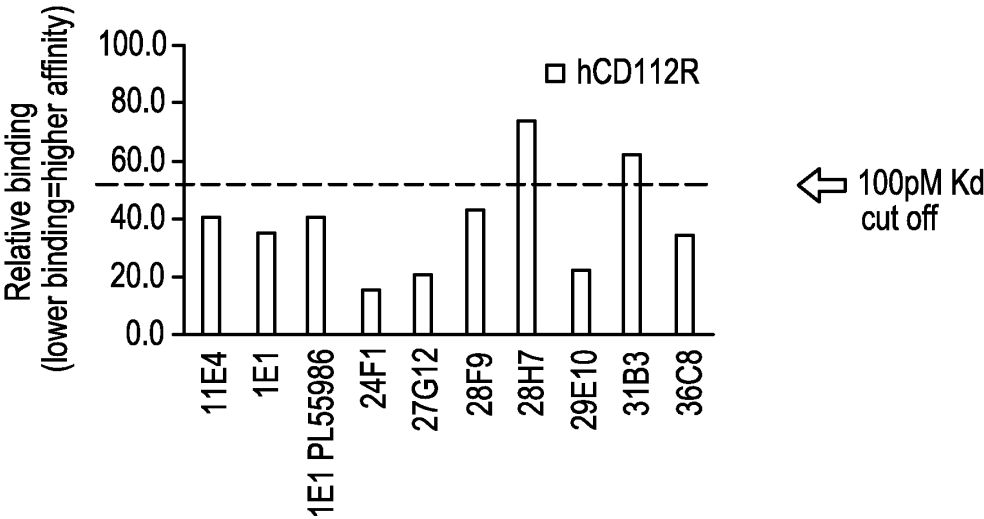


FIG. 7A

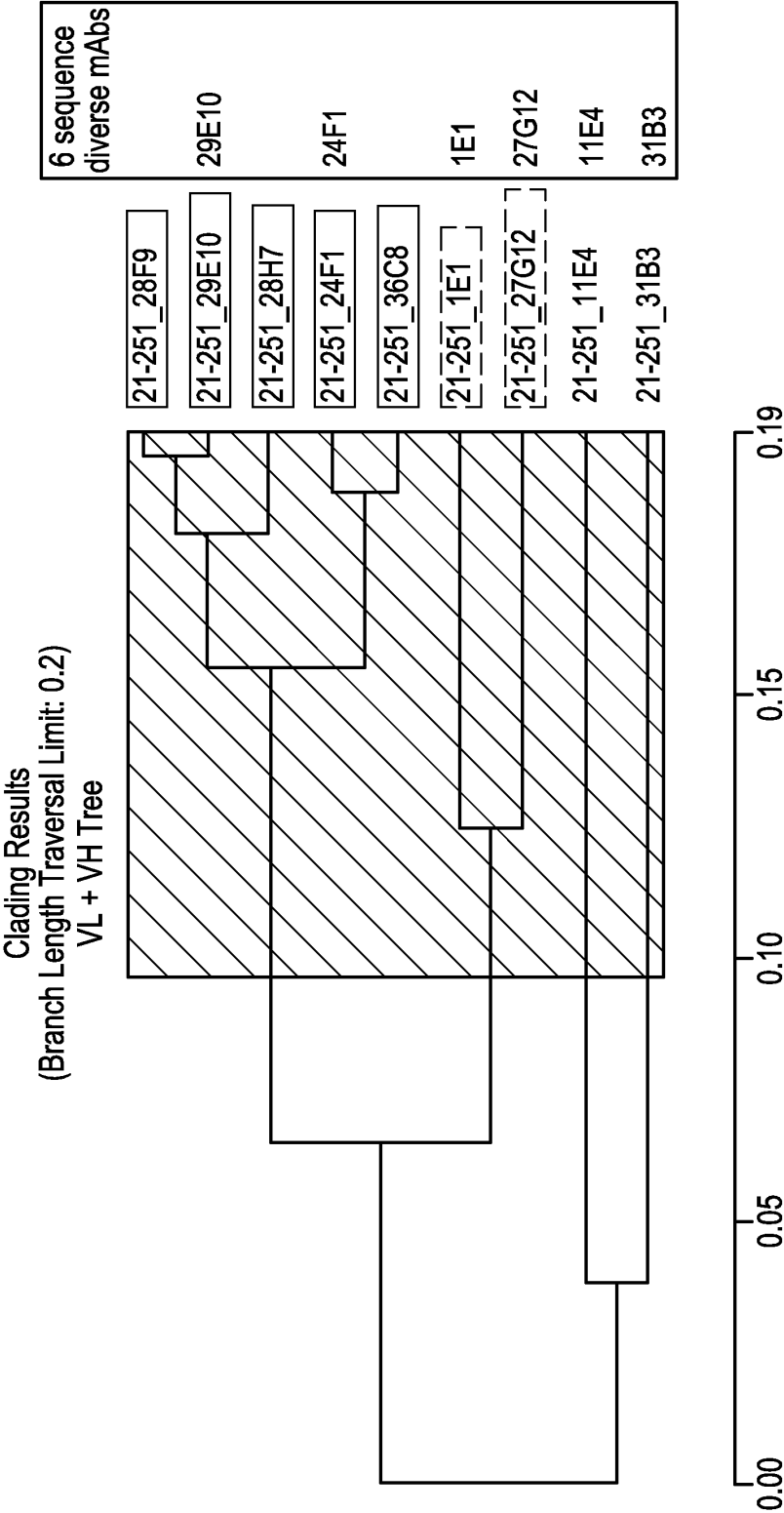
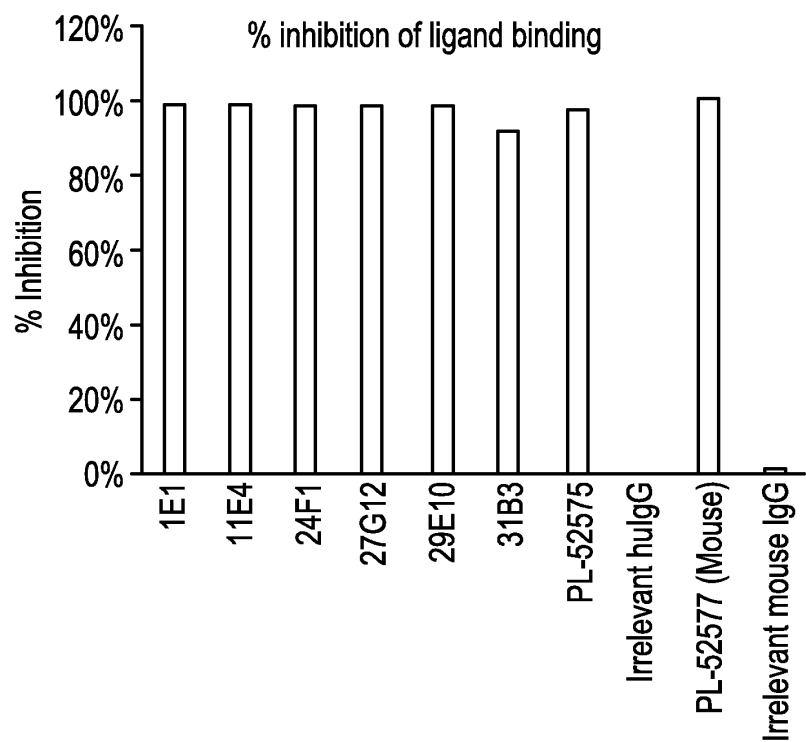


FIG. 7B

CD112R Jurkat RGA			Sequence Diversity	
Well ID	EC50 [nM] N=1	EC50 [nM] N=2	EC50 [nM] Average	VH Germline
1E1	3.1	nd	nd	VH1 1-02/D5 5-18 RF1/JH6
18C10	2.9	3.0	2.9	VH1 1-02/D5 5-18 RF1/JH6
11E4	6.4	5.0	5.7	VH4 4-30.1/D7 7-27 RF2/JH6
CD112R Jurkat RGA			Sequence Diversity	
Well ID	EC50 [nM] N=1	EC50 [nM] N=2	EC50 [nM] Average	VH Germline
27G12	4.7	5.5	5.1	VH1 1-08/D5 5-24 RF2/JH6
28H7	4.9	6.8	5.9	VH3 3-13/D1 1-1 RF1/JH6
29E10	3.4	6.3	4.9	VH3 3-13/D1 1-1 RF1/JH6
28F9	6.2	7.0	6.6	VH3 3-13/D1 1-1 RF1/JH6
31B3	5.5	8.2	6.9	VH3 3-30.3/D3 3-3 RF3/JH6
24F1	3.4	4.8	4.1	VH3 3-13/D1 1-1 RF1/JH4
36C8	5.8	8.1	7.0	VH3 3-13/D6 6-19 RF3/JH6
				HC CDR3
				EDNFN-----GMDV
				EDNFN-----GMDV
				DLDYDILTGY-----PRWDYGMDV
				HC CDR3
				ERFPF-----GMDV-
				EEFGH-----GMDV-
				EEFGY-----GMDV-
				EEFGN-----GMDV-
				EIFGESY-----YYGMDV-
				EGQVAL-----RYGRL-
				EGQWP-----YGMDV-

FIG. 8



IC50	PL-52575	PL-52577
ng/mL	17.8	14.7
nM	0.12	0.10
Max. % Inhibition	98%	100%

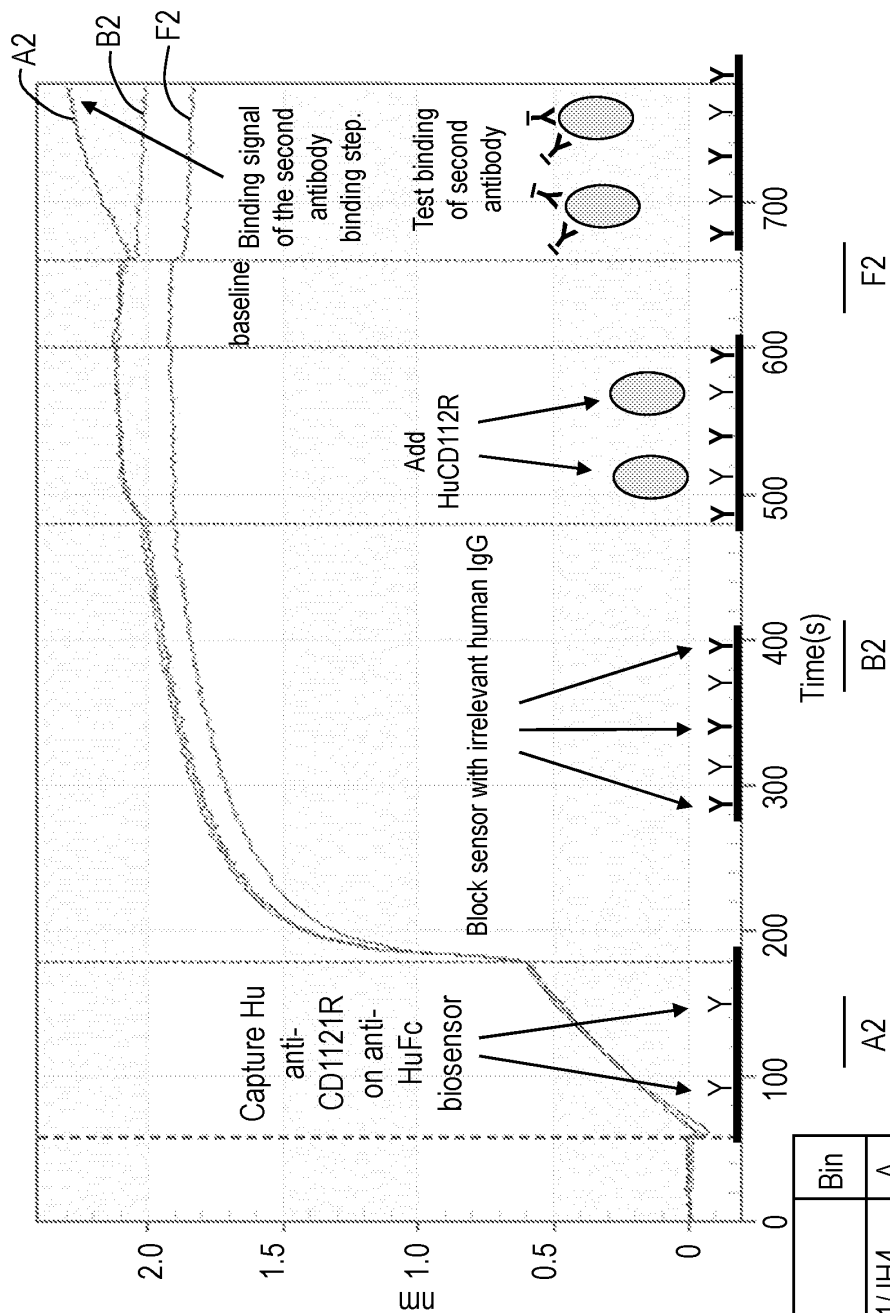


FIG. 9B

Antibody ID	VH Germline	Bin
24F1	VH3 3-13/D 11-1 RF1/JH4	A
27G12	VH1 1-08/D5 5-24 RF2/JH6	A
29E10	VH3 3-13/D 11-1 RF1/JH6	A
1E1	VH1 1-02/D5 5-18 RF1/JH6	A
11E4	VH4 4-30.1/D 7-27 RF2/JH6	A
31B3	VH3 3-30.3/D 3 3 RF3/JH6	B

FIG. 10A
Binding to Cyno PBMCs

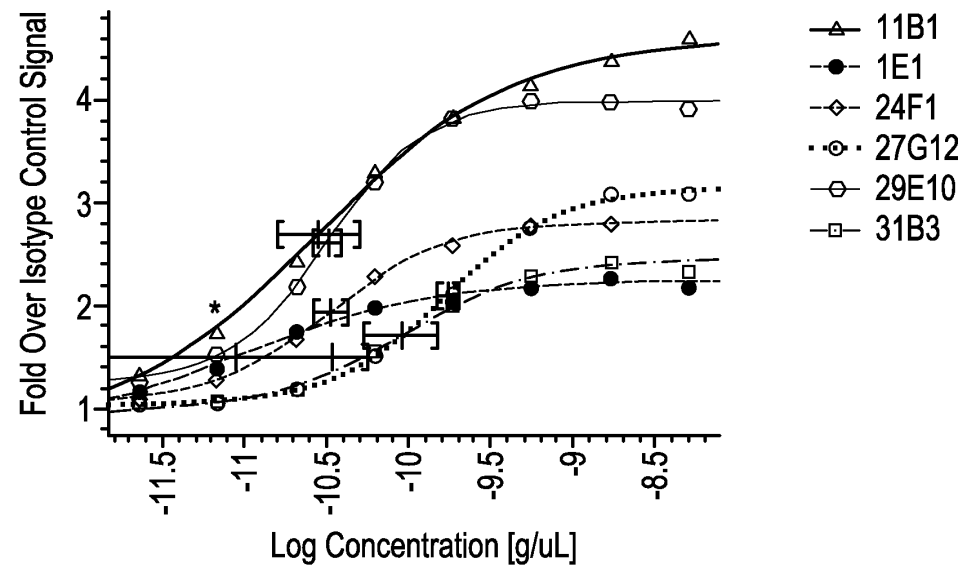


FIG. 10B
Binding to Human T-cells

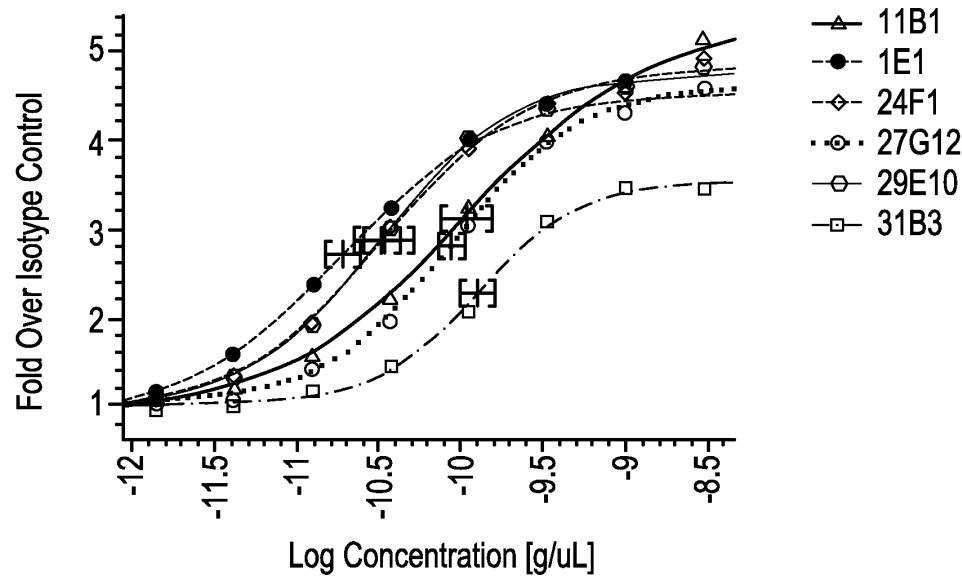


FIG. 11A

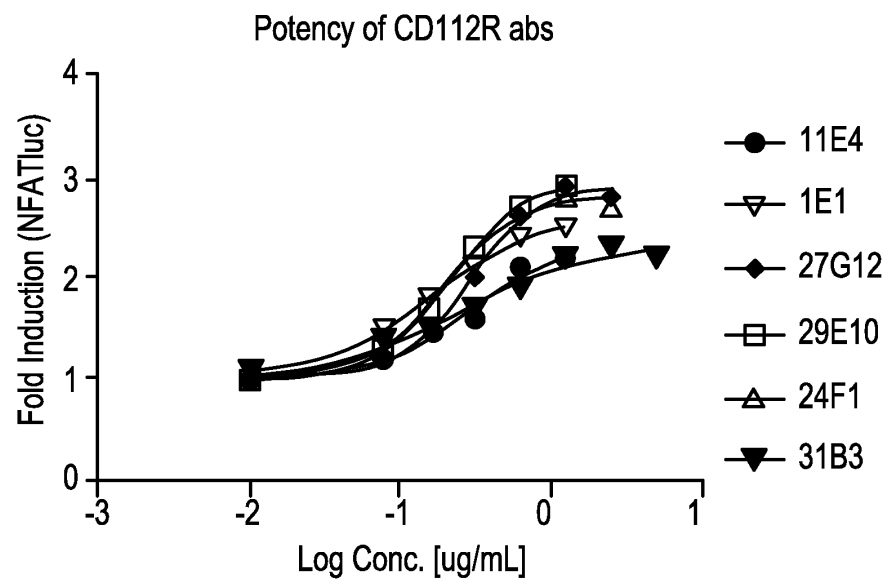


FIG. 11B

Antibody	Jurkat RGA Assay Interpolated @ 1.9-fold EC50 (nM)
11E4	3.2
1E1	1.3
27G12	1.8
29E10	1.3
24F1	1.3
31B3	3.5

FIG. 12A

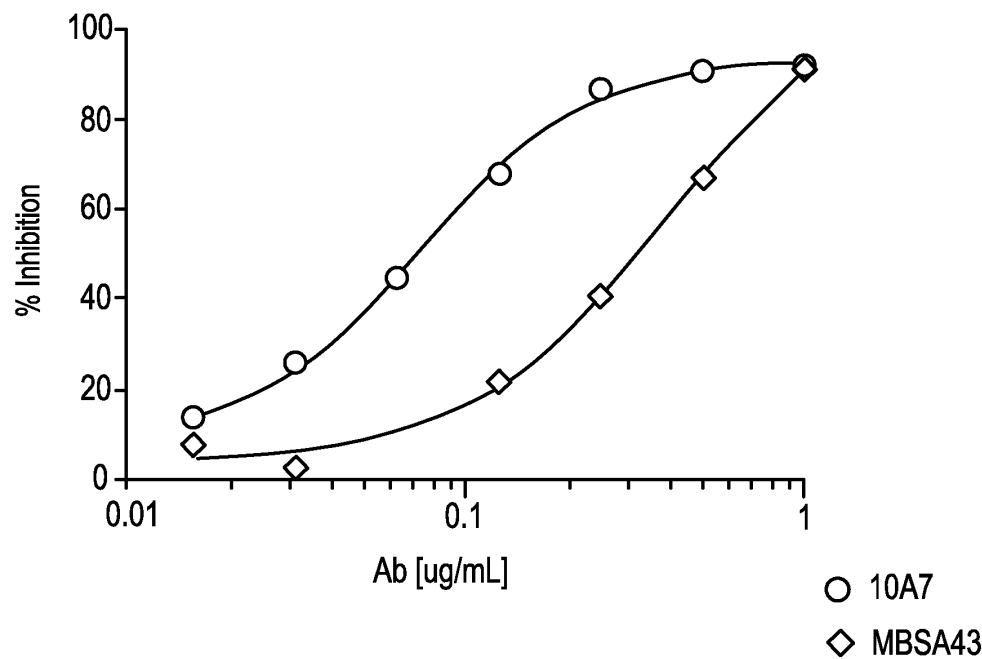


FIG. 12B

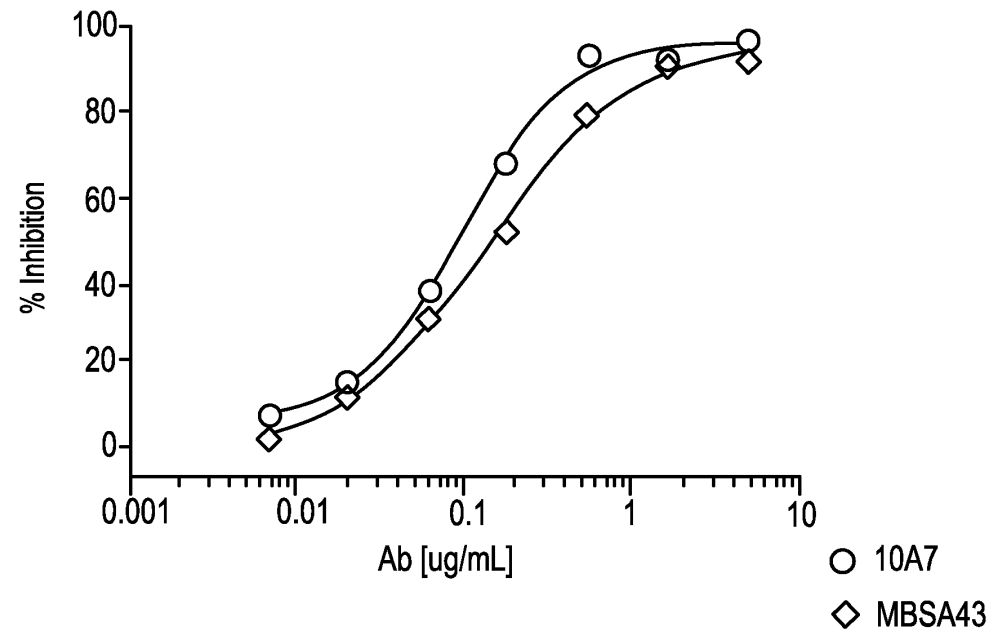


FIG. 12C

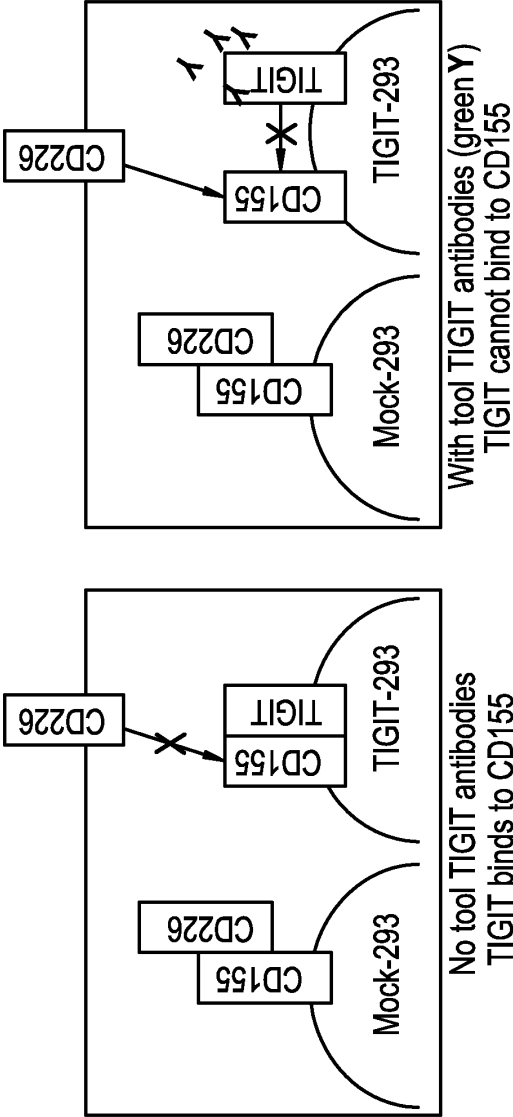


FIG. 12D

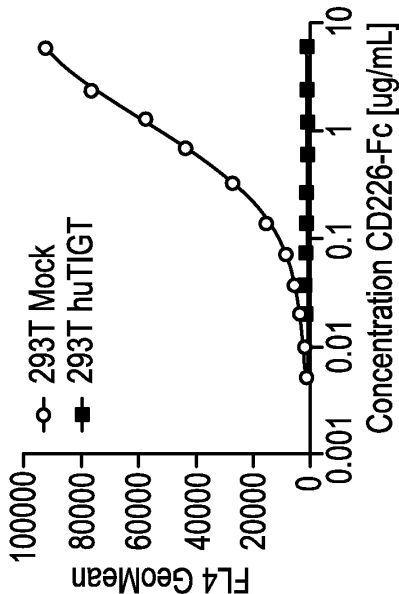


FIG. 12E

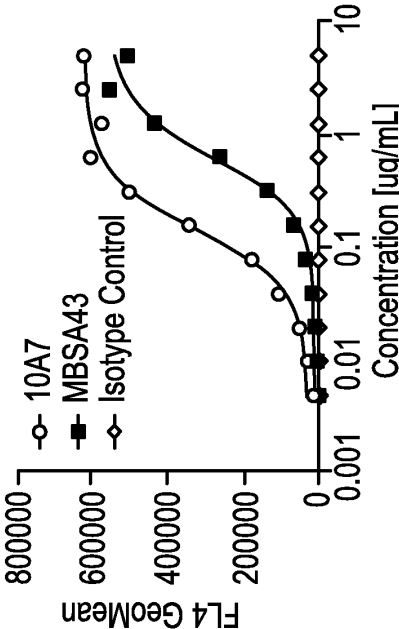


FIG. 12F

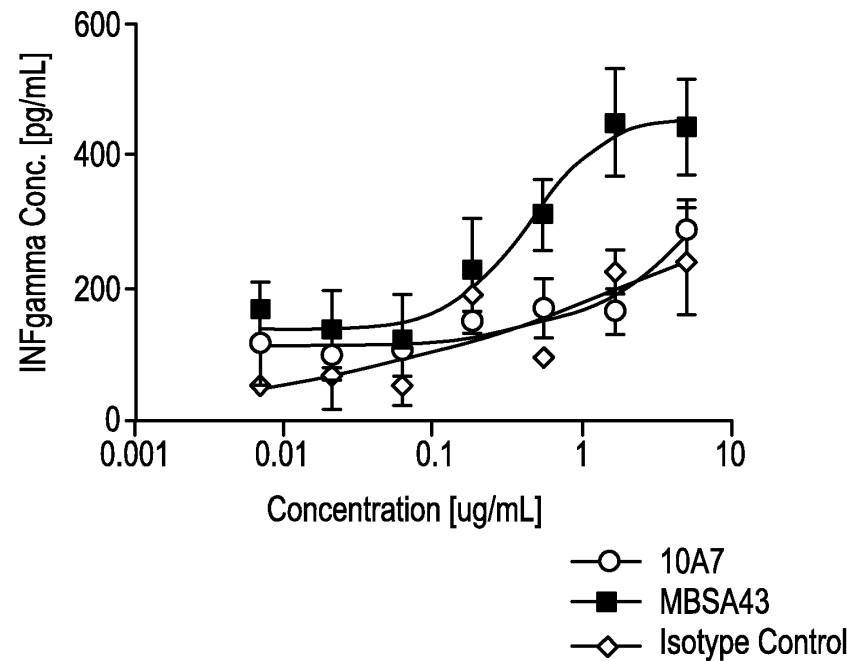


FIG. 12G

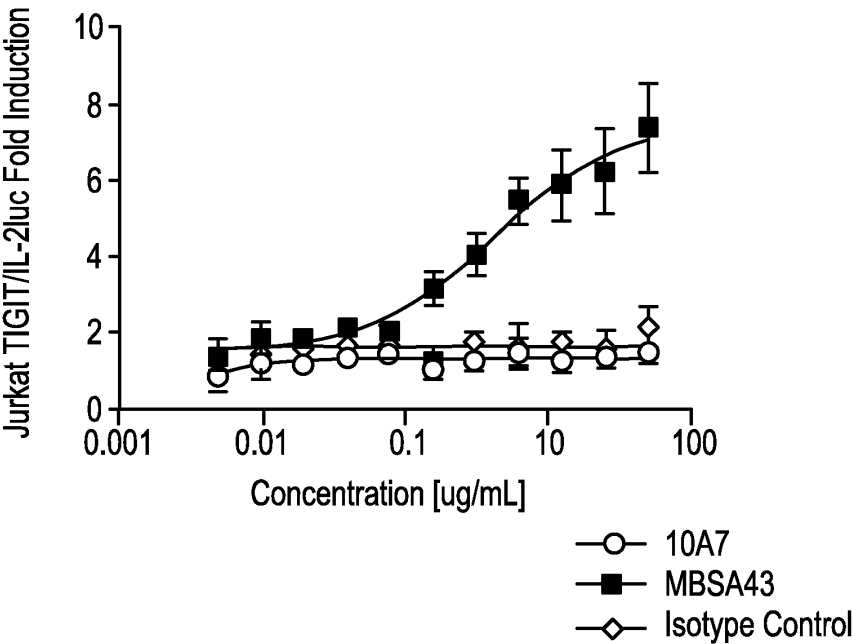


FIG. 12H

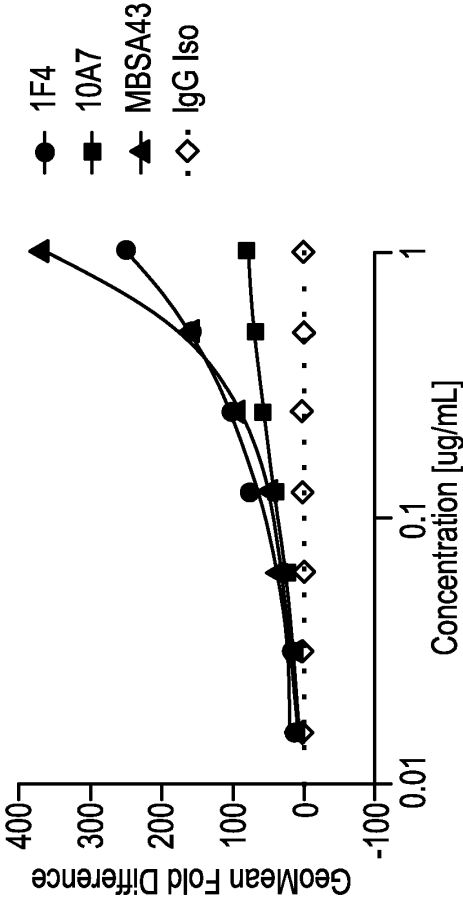


FIG. 12I

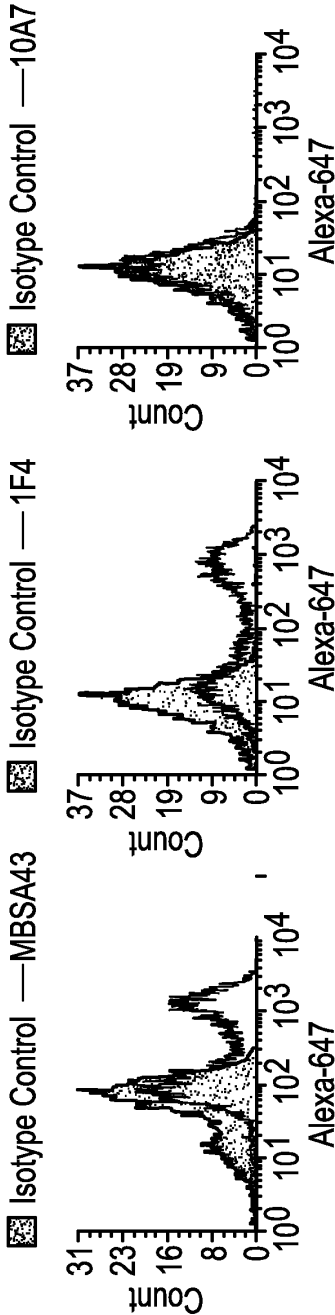


FIG. 13

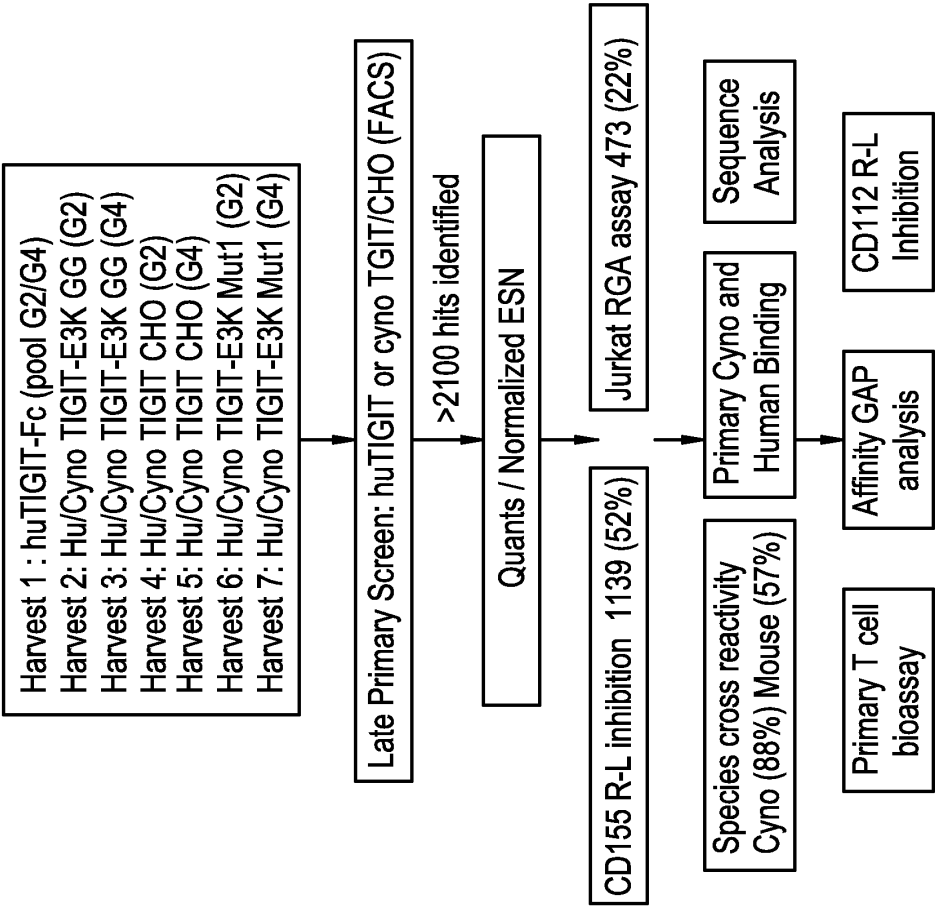


FIG. 14A

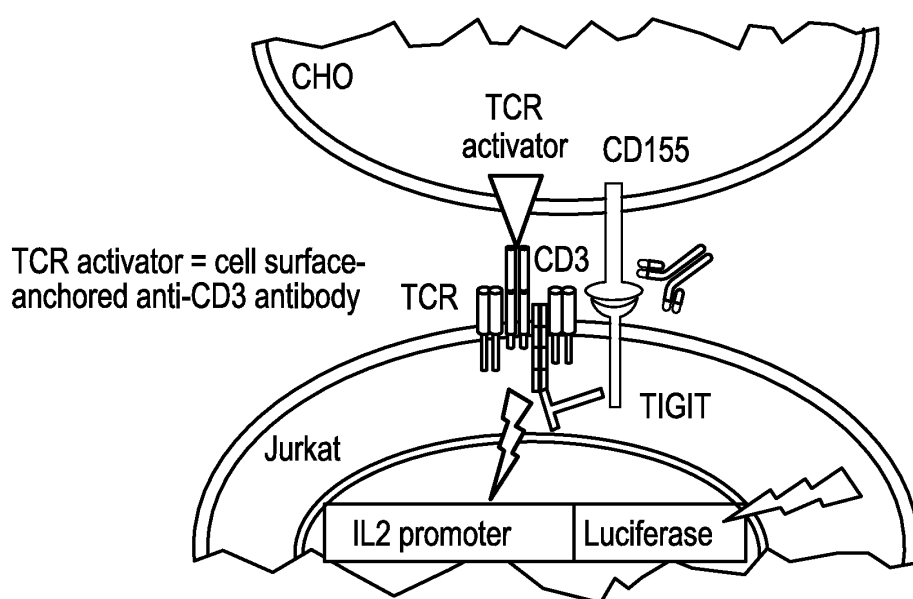


FIG. 14B

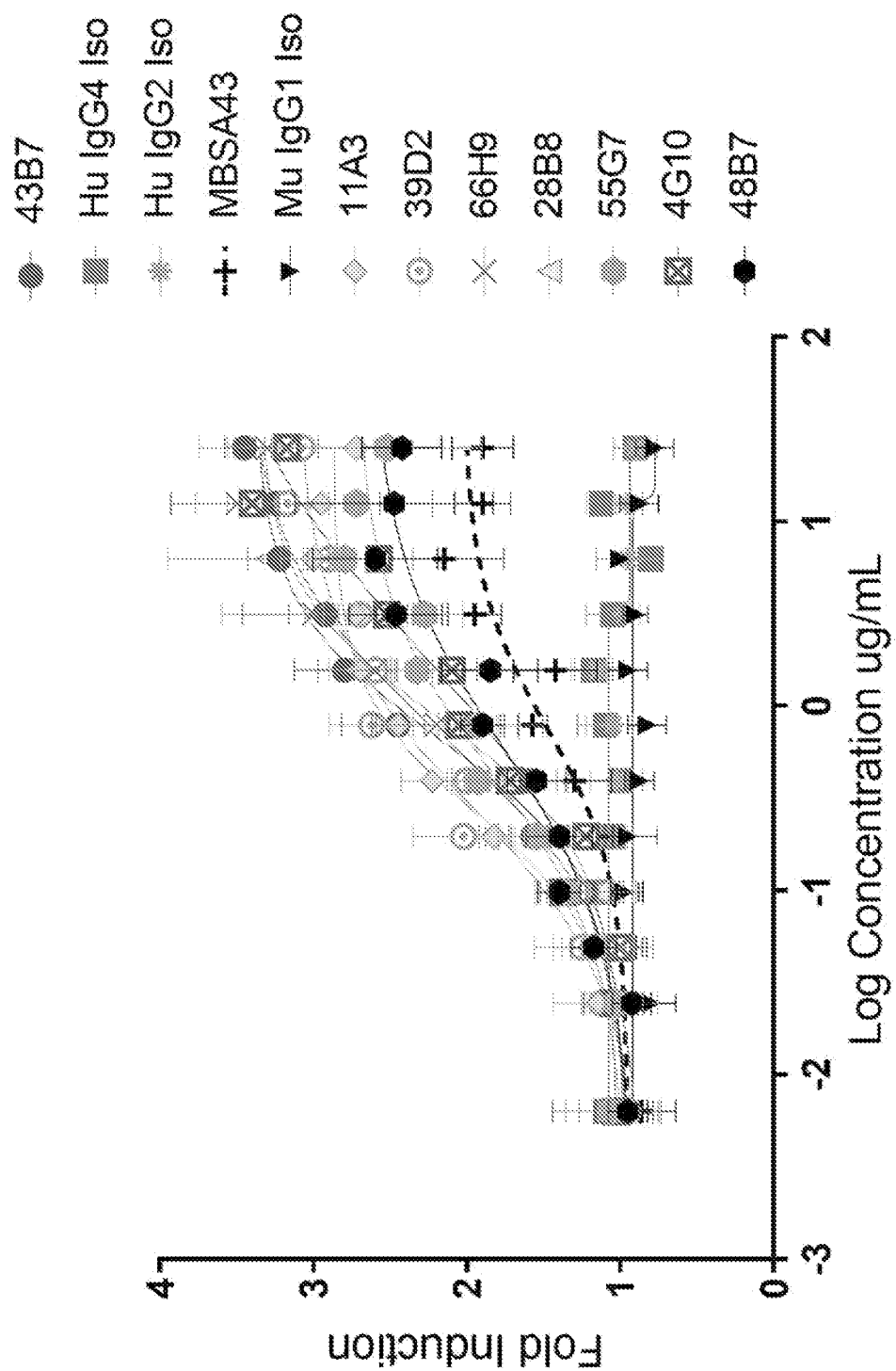


FIG. 14C

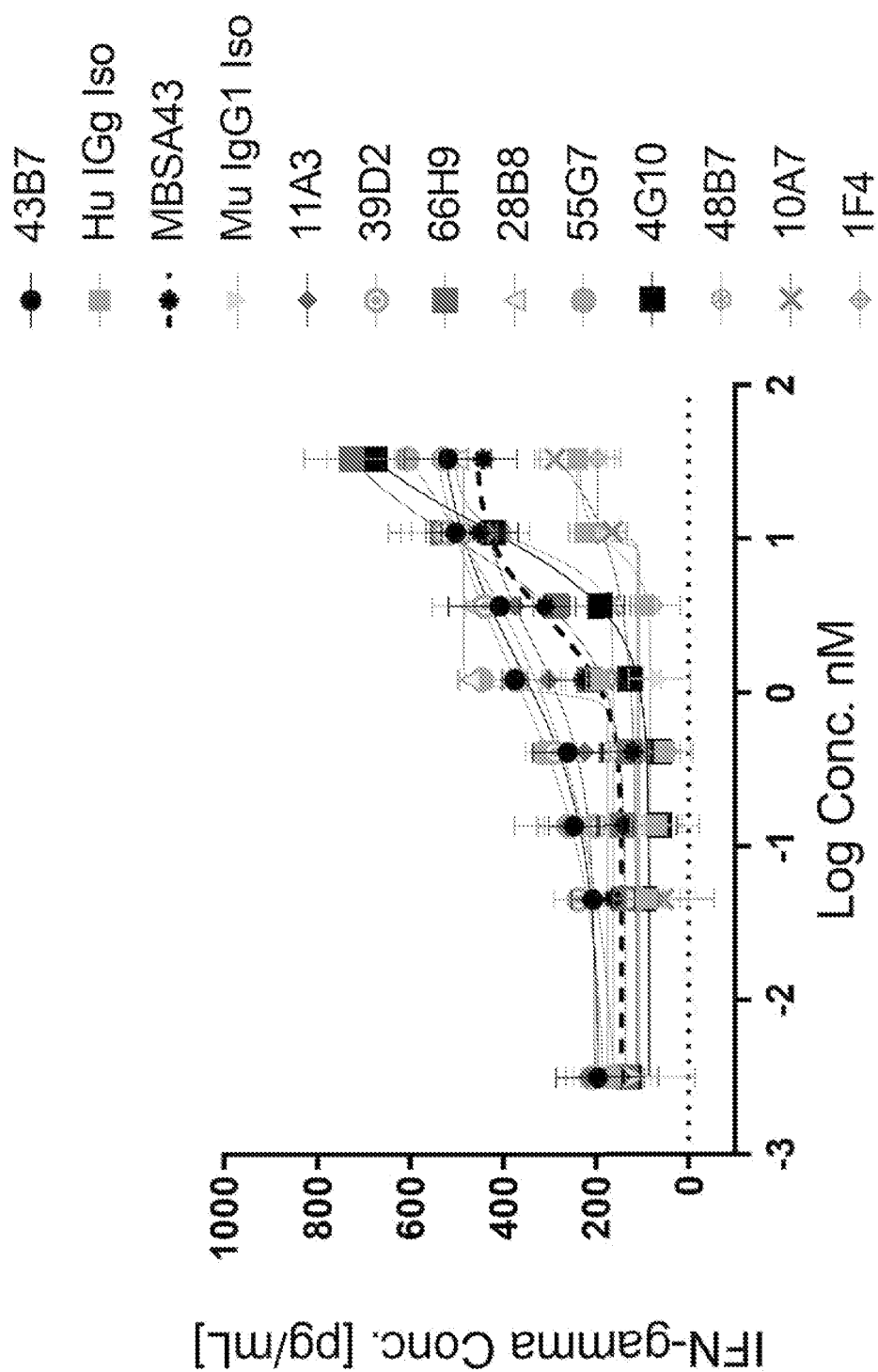


FIG. 15

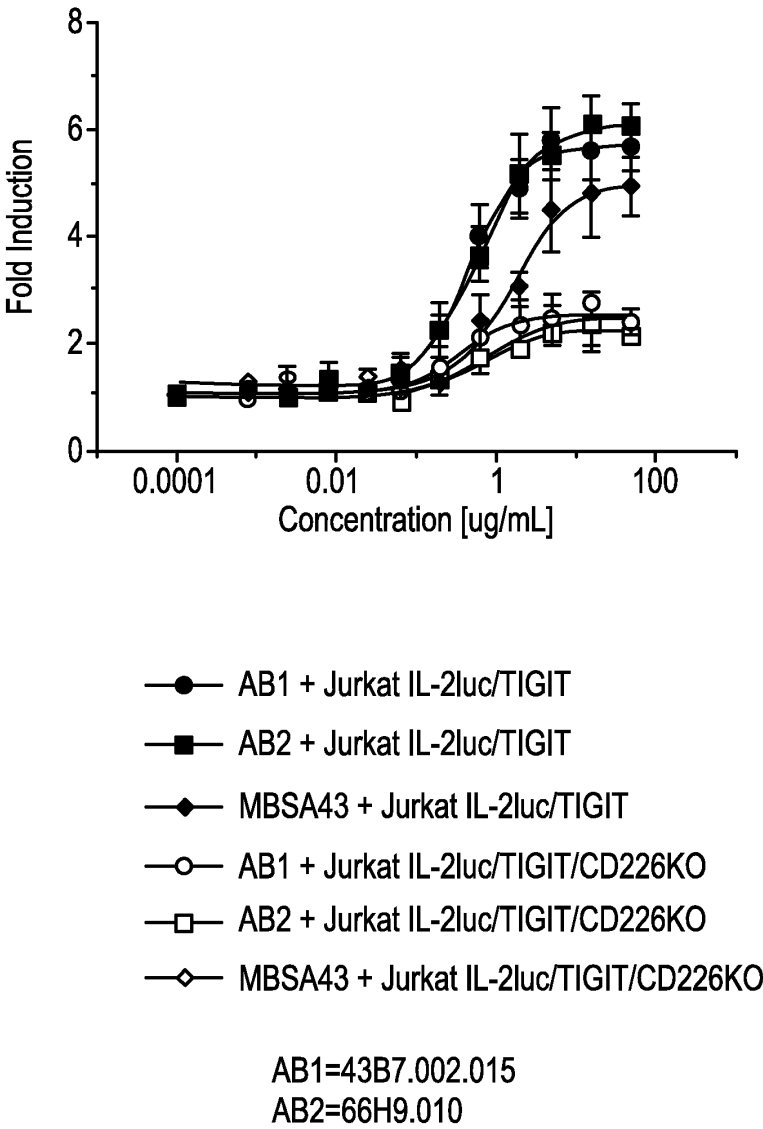


FIG. 16A

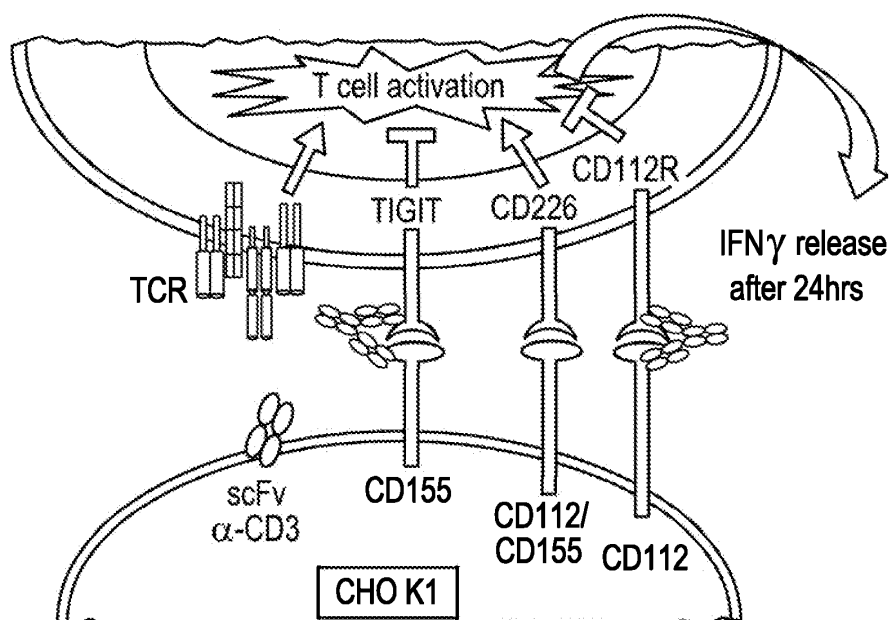


FIG. 16B

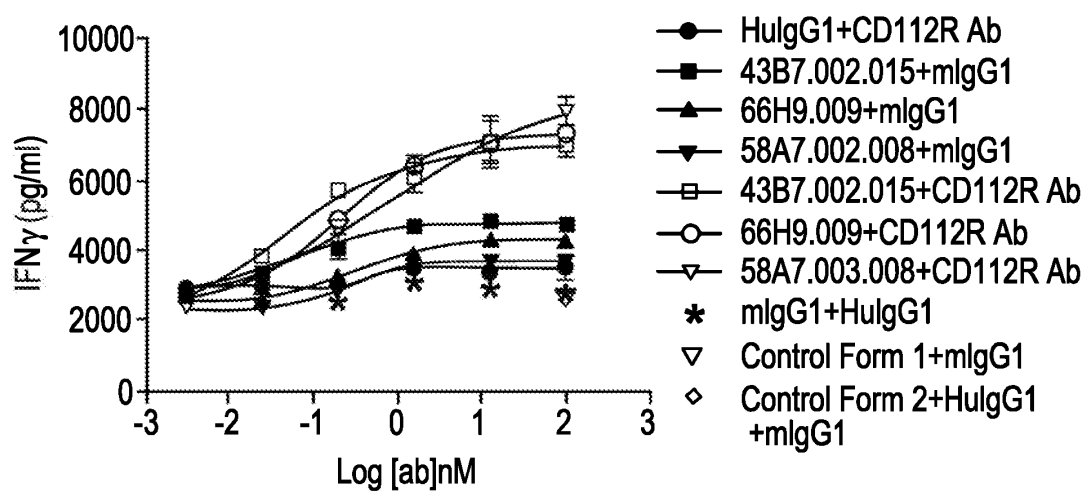


FIG. 17A

Triple vs. PD-1+TIGIT

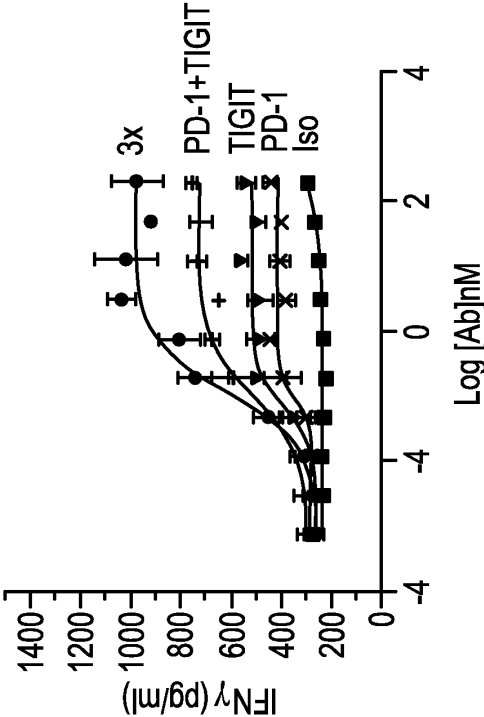
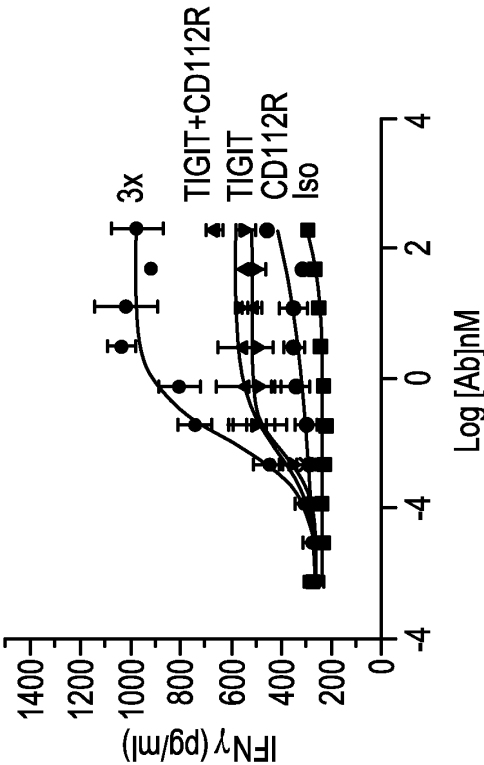


FIG. 17B

Triple vs. TIGIT+CD112R



Abs:
PD-1=Nivo
TIGIT=43B7.002
CD112R=PL-52577
Assay format: pp65 CMV recall assay

FIG. 17C

Triple vs. PD-1+CD112R

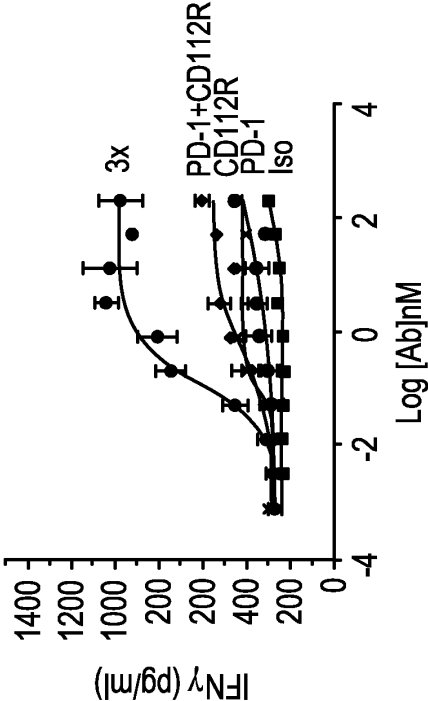
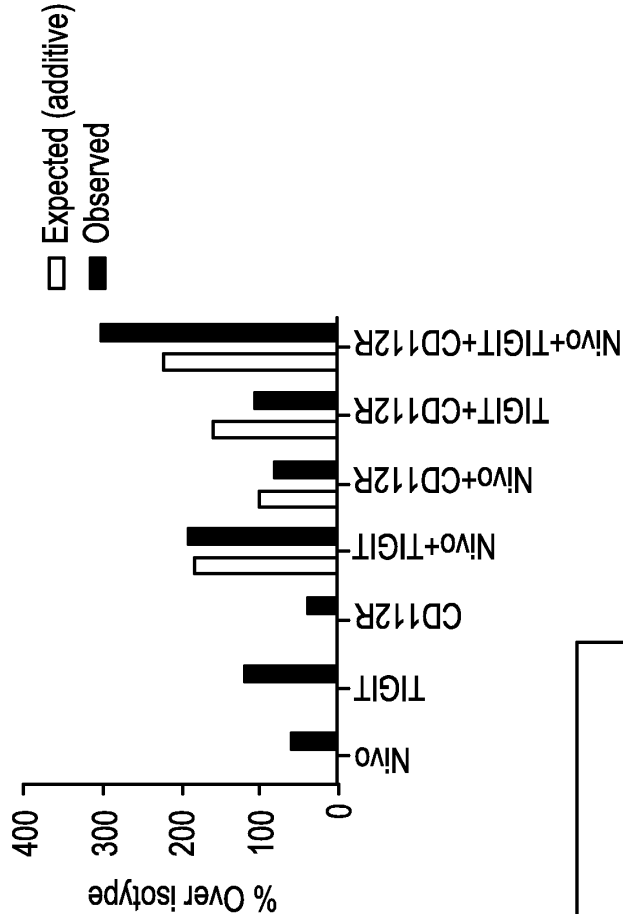


FIG. 17D

Expected vs observed



Abs:
PD-1=Nivo
TIGIT=43B7.002
CD112R=PL-52577
Assay format: pp65 CMV recall assay

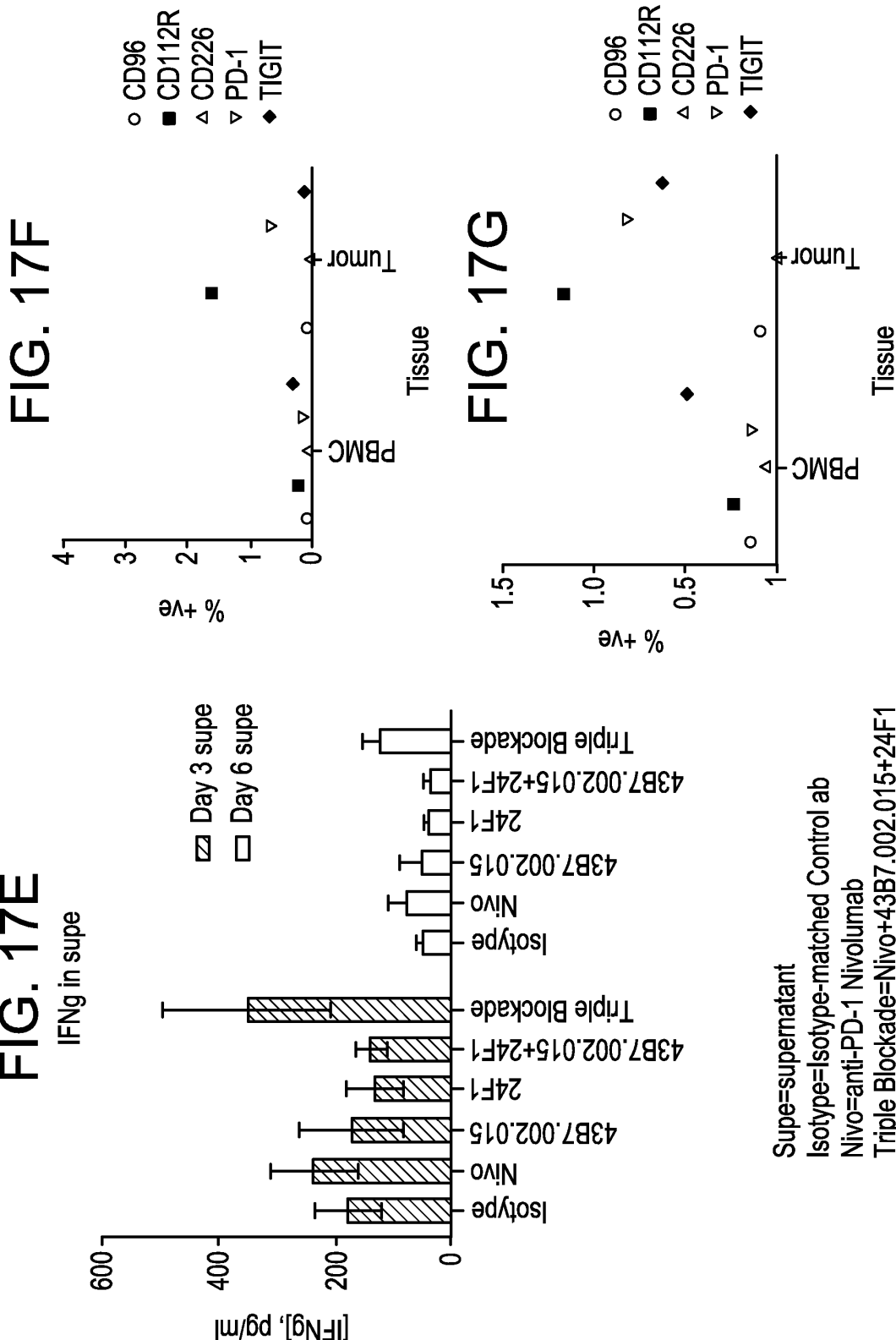


FIG. 17H

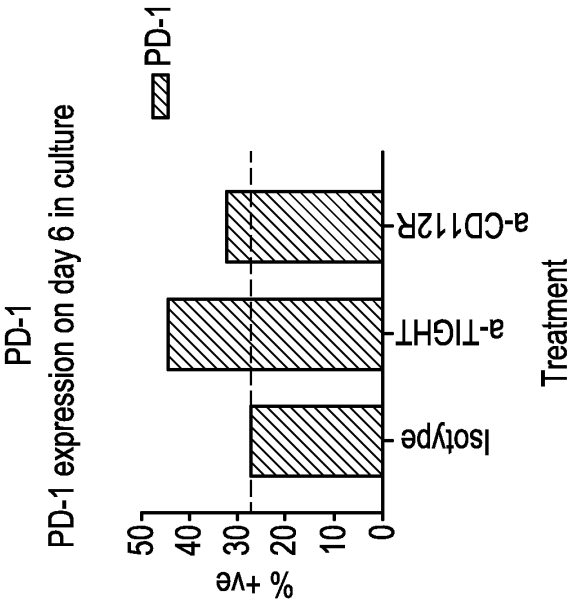


FIG. 17I

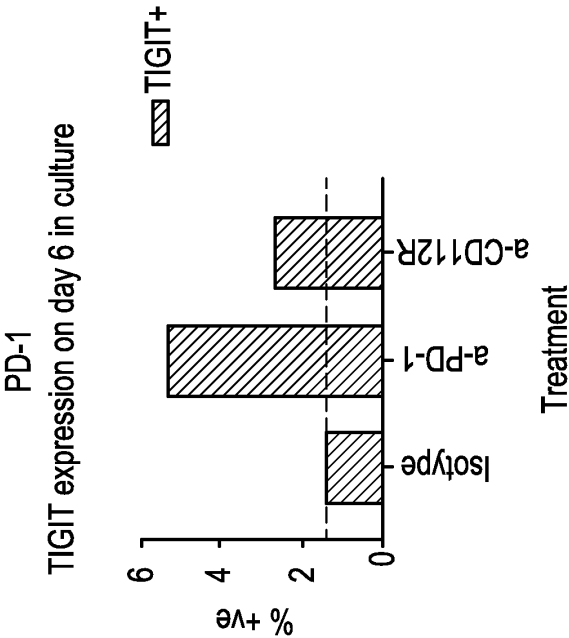


FIGURE 18

Table 2 CD112R Hotspot Engineering

Alias	Jurkat BGA Ave transit EC50 (nM)	Titre (mg/L)	Recovery (mg/L)	ErC pre- MP (%)	MCE NR MP (%)	T _{in} (°C)	T _{out} (°C)
1E1	1.11	557	546	9	95.6	71.1	71.7
1E1.001	1.18	682	538	9	93.4	69.3	70.2
1E1.002	1.12	1084	569	8	93.9	69.3	70.1
1E1.003	1.47	1600	554	10	93.2	70.6	71.2
1E1.004	1.16	1010	577	9	94.3	nd	nd
1E1.005	1.00	987	562	8	95	69.8	70.4
1E1.006	1.13	886	538	7	94.6	69	70.4
1E1.007	1.51	1186	562	8	95.7	71	71.4
1E1.008	1.17	608	515	8	95.4	71.1	71.7
1E1.009	1.34	453	500	7	97	66.6	67.9
1E1.010	1.57	1154	554	7	96.3	66.7	67.8
1E1.011	1.88	1237	508	7	97.5	67.6	68.3
1E1.012	1.14	1139	462	6	97.1	67.8	67.4
1E1.013	0.92	987	562	7	94.6	67.5	68.5
1E1.014	1.04	1158	531	7	95.7	67.6	68.5
1E1.015	1.33	581	531	8	95.1	68.5	69.3
1E1.016	0.98	676	531	7	95.4	68.6	69.4
1E1.017	2.01	523	538	8	94.8	69.1	70
1E1.018	1.40	521	400	6	96.6	69	70.2
1E1.019	4.97	1355	554	9	95.1	70.2	70.9
1E1.020	1.55	573	546	9	95.1	70.3	70.9
1E1.021	1.99	555	523	7	96.4	69.5	70.3
1E1.022	1.43	398	308	5	94.9	69.5	70.5
1E1.023	7.23	535	531	8	95.4	70.8	71.4
1E1.024	1.61	606	569	8	97	70.8	71.6
1E1.025	2.00	514	492	5	96.7	66.2	67.8
1E1.026	1.56	512	546	5	97	66.2	67.4
1E1.027	4.52	515	485	4	97.5	67.1	68.2
1E1.028	1.96	675	492	4	97.4	67.2	68.3
1E1.029	2.39	636	538	5	96.3	67.1	68.2
1E1.030	1.80	531	500	6	97.5	67.3	68.4
1E1.031	6.22	789	515	5	98.2	68.1	69.1
1E1.032	2.07	611	531	5	98.1	68.2	69.2
1E1.049	5.21	850	600	8	97.9	72.4	72.7
1E1.050	7.27	1005	577	8	97.8	71.7	71.9
1E1.052	0.97	954	562	10	93.6	71.8	72.4
1E1.055	2.13	545	531	7	94.8	70.1	70.8
1E1.056	1.45	1038	562	8	95.8	71.3	72

FIGURE 18 (continued)

11E4	1.06	938	492	1	98.2	70.8	72
11E4.003	3.99	645	431	3	98.3	66.6	68.6
11E4.004	4.50	357	308	1	98.3	66.8	69.1
11E4.005	9.81	777	469	3	97.8	70.2	71.2
11E4.006	5.21	794	546	1	97.7	71.5	72.8
11E4.007	4.10	82	123	0	90.3	70.8	74.3
11E4.008	3.49	901	469	2	97.9	74	74.7
11E4.009	3.93	788	523	1	97.8	71.7	73.2

Table 3 CD112R Framework engineering (Fv 1 Target = huCD112R)

Alias	Jurkat RGA Ave EC50 nM	Filter (mg/L)	Recovery (mg/L)	SEC Mn MP (%)	FACE NP MP (%)	Tm1	SEC MP Zw/ABC	SEC A9a MP Zw/ABC
11E4*	1.54	382	308	2.5	98.1	71.3	90.3	-8.8
11E4.002	1.79	479	276	4.2	95.7	64.0	89.9	-2.8
11E4.004	1.00	445	318	2.7	93.8	69.0	89.5	-0.9
11E4.005	1.90	134	104	12.2	94.5			
11E4.006	1.38	479	328	5.4	92.4	71.2	78.8	-8.8
11E4.008	2.39	681	409	4.9	94.3	68.9	93.2	-2.9
11E4.010	2.01	592	425	3.8	96.0	70.5	89.0	-9.0
11E4.011	3.39	301	201	9.9	94.3	72.1	85.2	2.3
11E4.012	2.29	301	237	6.9	95.9	61.4	96.9	2.7
11E4.013	1.48	552	370	5.7	96.1	75.0	83.8	-13.1
11E4.013	1.48	552	370	5.7	96.1	75.0	83.8	-13.1

* used as a control.

FIGURE 18 (continued)

Table 4 CD112R Yeast Display Engineering 1

Alias	CD112R Junkat BGA Transit EC90 (nM)	Recovery (mg/L)	SEC pre- MP (%)	SEC MP (%)	MCE RR MP (%)	Tm1	HT SEC to MP (%)	HT SEC Zwh4DC MP (%)
24F1_CONS	1.90	338.6	3.92	96.08	89.50	70	90.39	88.2
29F10_CONS	3.09	342.9	1.43	96.33	98.70	65.8	96.63	93.94
24F1_CONS.001	2.09	334.3	5.5	94.5	97.31	70.6	90.83	88.66
24F1_CONS.002	2.93	334.3	5.8	94.2	97.59	69.7	92.75	90.92
24F1_CONS.003	2.86	342.9	4.77	95.23	92.92	65.6	91.49	89.51
24F1_CONS.004	1.97	312.9	4.07	95.93	97.55	64.4	93.93	92.38
24F1_CONS.005	2.11	334.3	3.52	96.48	96.58	63.6	94.4	92.76
24F1_CONS.006	2.04	338.6	3.55	96.45	97.42	63.6	94.29	92.97
24F1_CONS.007	2.19	317.1	2.63	97.37	97.55	64.4	95.63	93.83
24F1_CONS.008	2.07	347.1	7.77	92.23	97.47	68.6	89.7	88.41
24F1_CONS.009	2.27	304.3	10.63	89.37	97.45	68.6	87.19	86.2
24F1_CONS.011	2.13	338.6	9.06	90.94	97.53	68.9	88.72	87.32
24F1_CONS.012	2.66	355.7	8.13	91.87	97.34	68.6	90.14	88.75
24F1_CONS.013	2.79	325.7	5.99	94.01	97.52	71.9	91.76	89.84
24F1_CONS.014	2.36	334.3	5.73	94.27	97.55	66.3	92.25	90.86
24F1_CONS.015	2.62	334.3	7.88	92.12	97.46	71.3	90.21	88.75
24F1_CONS.016	2.31	338.6	4.54	95.46	97.53	69.2	93.69	91.74
24F1_CONS.017	1.95	304.3	1.8	98.2	97.44	62.2	96.68	93.81
24F1_CONS.018	2.44	308.6	6.62	93.38	97.53	69.7	91.74	89.28
24F1_CONS.019	3.08	334.3	8.98	91.02	97.44	70.8	88.99	87.57
24F1_CONS.020	2.65	308.6	3.85	96.15	97.53	64.1	94.46	92.6
24F1_CONS.021	2.16	321.4	4.42	95.58	97.61	69.7	93.33	91.81
24F1_CONS.022	1.85	342.9	1.97	98.03	97.46	62.1	96.29	94.05
24F1_CONS.023	1.73	167.1	2.31	97.69	98.07	61	96.46	94.09
24F1_CONS.024	2.12	282.9	4.09	95.91	97.00	70.5	92.73	90.9
24F1_CONS.025	2.19	351.4	4.09	95.91	97.16		94.51	92.33
24F1_CONS.026	2.42	325.7	5.81	94.19	97.40	70.7	93.01	90.99
24F1_CONS.027	2.38	338.6	4.61	95.39	94.89	69.1	93.88	91.85
24F1_CONS.028	2.46	330.0	10.94	89.06	97.41	69.2	86.84	85.39
24F1_CONS.029	2.61	330.0	5.56	94.44	97.17	64.6	92.63	90.81
24F1_CONS.031	2.97	325.7	4.76	95.24	97.28	61.6	93.81	91.89
24F1_CONS.032	2.55	308.6	5.78	94.22	97.54	61.6	92.55	90.8
24F1_CONS.033	2.67	317.1	4.97	95.03	97.50	63.2	93.61	91.71
24F1_CONS.034	2.70	248.6	6.78	93.22	97.06	67.2	89.52	87.71
24F1_CONS.035	2.46	231.4	8.29	91.71	97.48	67.9	87.98	87.65
24F1_CONS.036	2.64	257.1	9.5	90.5	97.33	69.2	87.23	86.18
24F1_CONS.037	3.39	278.6	11.77	88.23	97.52	68.4	85.13	84.13

FIGURE 18 (continued)

24F1_CONS.038	2.52	334.3	3.01	96.99	97.78	61.2	95.29	93.08
24F1_CONS.039	2.43	347.1	4.95	95.05	75.43	59.9	93.32	91.28
24F1_CONS.040	2.93	154.3	4.93	95.07	97.99	57.2	93.16	90.75
24F1_CONS.041	2.73	137.1	6.13	93.87	97.76	56.4	91.76	89
24F1_CONS.042	2.66	287.1	5.9	94.1	97.63	60.7	92.62	90.35
24F1_CONS.043	2.64	291.4	6.08	93.92	97.65	61.2	91.7	90.18
24F1_CONS.044	2.30	287.1	4.31	95.69	97.28	63.4	93.15	91.41
24F1_CONS.045	2.18	227.1	2.57	97.43	98.08	57.3	95.19	93.15
24F1_CONS.046	1.84	321.4	3.47	96.53	97.21	62.2	94.42	92.39
24F1_CONS.048	2.54	150.0	2.95	96.24	99.29	67.1	93.76	91.62
24F1_CONS.049	3.00	295.7	4.08	93.27	99.18	65.4	92.95	91.17
24F1_CONS.050	2.95	141.4	3.29	95.89	98.83	64.3	92.46	90.69
11E4.009*	4.06	351.4	3.39	96.61	97.01	71.5	95.09	93.25
11E4.084	8.33	330.0	3.78	91.59	97.28	72.7	91.88	88.93
11E4.007*	2.94	390.0	3.6	96.4	96.92	71.1	94.48	95.93
11E4.087	2.35	325.7	4.44	95.56	97.12	69.9	90.43	84.7
11E4.088	3.72	312.9	3.98	96.02	97.26	69.3	95.17	95.14
11E4.089	2.00	325.7	2.45	97.55	97.26	71.1	88.76	87.54
11E4.090	2.31	360.0	4.92	95.08	97.25	67	86.83	84.97
11E4.091	2.29	372.9	6	94	97.19	69.7	90.01	88.21
11E4.093	2.56	325.7	8.21	91.79	96.98	68.5	89.76	85.43
11E4.094	2.63	338.6	6.15	93.85	97.56	70.8	88.19	85.58
11E4.095	1.69	381.4	4.05	95.95	97.29	70.7	89.93	90.26
11E4.096	2.30	407.1	4.74	95.26	97.00	68.5	91.3	89.09
11E4.097	2.69	351.4	8.55	91.45	97.02	68.5	89.23	84.18
11E4.098	2.61	351.4	4.24	95.76	97.11	72.2	88.77	88.92
11E4.099	2.93	398.6	3.49	96.51	97.29	69	87.15	86.2
11E4.100	2.95	342.9	4.87	95.13	97.33	66	86.67	88.17
11E4.102	3.20	377.1	4.98	95.02	97.30	64.7	88.99	88.67
11E4.103	2.97	355.7	4.96	95.04	97.25	68.3	90.24	89.22
11E4.104	2.39	364.3	5.52	94.48	97.40	72	86.9	85.32
11E4.105	3.54	415.7	4.68	95.32	97.16	74.3	89.78	89.99
11E4.106	2.31	381.4	5.48	94.52	97.08	71.1	90.6	87.69
11E4.107	1.93	351.4	6.75	93.25	97.07	66.7	90.86	88.39
11E4.110	2.95	402.9	7.08	92.92	97.49	70.2	90.45	86.52
11E4.111	2.93	342.9	5.7	94.3	97.39	72.2	89.39	84.78
11E4.112	7.14	450.0	3.99	96.01	96.89	73.7	92.6	90.43
11E4.114	3.84	360.0	8.96	91.04	97.04	70.8	89.15	86.44
11E4.115	3.46	355.7	9.73	90.27	96.83	68.7	86.41	82.07
11E4.116	2.90	390.0	6.98	93.02	97.03	72.9	90.97	89.4
11E4.117	2.89	390.0	4.79	95.21	97.15	72	91.54	89.55
11E4.118	3.52	347.1	7.93	92.07	96.94	68.9	86.78	85.92
11E4.119	4.84	402.9	3.06	96.94	97.09	74.5	95.33	96.38

FIGURE 18 (continued)

11E4.121	3.74	372.9	4.26	95.74	97.04	73.7	95.48	93.24
11E4.127	6.28	385.7	3.57	96.43	97.29	72.6	95.6	96.29
31B3_5_CONS.147	6.40	325.7	0.37	99.63	98.04	71.4	98.58	97.1
31B3_5_CONS.158	9.88	304.3	0.34	99.66	97.76	71.7	98.37	96.02
29E10_CONS.001	3.12	325.7	1.51	96.39	98.58	63.8	96.58	94.03
29E10_CONS.002	2.74	342.9	1.57	96.38	98.65	64.9	96.73	94.31
29E10_CONS.003	2.58	282.9	1.92	98.08	98.87	66	96.1	93.51
29E10_CONS.004	2.91	274.3	1.44	98.56	99.37	64.4	96.48	93.98
29E10_CONS.005	3.40	355.7	1.14	98.86	99.35	63.1	97.36	94.96
29E10_CONS.006	2.30	317.1	1.27	98.73	99.40	64.2	97.07	94.64
29E10_CONS.007	2.06	282.9	0.92	99.08	99.37	64.1	97.4	94.9
29E10_CONS.008	1.80	347.1	1.16	98.84	98.82	66.5	97.14	94.6
29E10_CONS.009	3.05	12.9	0	0	0.00			
29E10_CONS.011	2.63	291.4	1.31	96.04	99.45	64.4	96.45	93.77
29E10_CONS.012	3.19	342.9	1.91	95.35	98.50	64.8	95.54	93.28
29E10_CONS.013	5.43	308.6	3.61	93.82	98.88	64.5	93.83	92.21
29E10_CONS.014	3.32	338.6	3.72	93.68	98.73	65.8	93.67	92.58
29E10_CONS.015	3.30	308.6	2.67	94.8	99.27	67.9	95.02	93.16
29E10_CONS.016	2.88	304.3	1.44	95.9	98.60	67.2	96.54	93.95
29E10_CONS.017	2.88	407.1	1.36	96.33	98.88	64.7	96.66	94.04
29E10_CONS.018	2.30	407.1	1.33	96.35	98.80	64.2	96.75	94.11
29E10_CONS.019	1.95	437.1	1.34	96.41	98.94	65.6	96.77	94.13
29E10_CONS.020	2.04	338.6	3.55	94.06	99.42	65.3	93.94	92.43
29E10_CONS.021	2.34	355.7	4.09	93.58	99.40	55.9	94.06	92.49
29E10_CONS.022	2.78	300.0	4.33	93.21	99.39	61.4	93.15	91.53
29E10_CONS.023	2.90	291.4	3	94.64	99.28	55.1	95.07	92.63
29E10_CONS.024	1.49	300.0	3.89	93.55	99.34	66	93.75	92.33
29E10_CONS.025	2.86	295.7	3.28	94.21	98.50	66.9	94.43	92.66
29E10_CONS.026	3.12	304.3	3.44	94.23	98.80	66	93.87	92.96
29E10_CONS.027	2.77	338.6	1.06	96.49	98.67	66.6	96.86	94.19
29E10_CONS.028	2.92	274.3	2.31	94.2	99.96	65.3	95.33	93.4
29E10_CONS.029	2.72	287.1	2.3	94.14	99.61	66	95.55	93.82
29E10_CONS.030	2.97	325.7	2.2	95.53	99.39	64.9	96.04	93.47
29E10_CONS.031	2.01	334.3	2.46	95.37	99.41	49.7	95.74	94.14
29E10_CONS.032	2.22	261.4	2.02	96.19	99.46	65.3	96.38	93.73
29E10_CONS.033	2.52	300.0	1.59	96.52	99.59		96.47	93.97
29E10_CONS.034	3.04	287.1	0.9	97.32	99.34		97.47	95.01
29E10_CONS.035	2.52	304.3	2.83	95.5	99.36	65.1	95.06	93
29E10_CONS.036	3.06	287.1	3.04	95.15	99.42	66.1	94.89	92.95
29E10_CONS.038	4.66	342.9	2.85	95.18	99.36	66.1	95.53	93.58
29E10_CONS.039	9.52	291.4	3.83	94.15	99.45	65.1	94.46	92.3
29E10_CONS.040	8.31	287.1	3.04	95.28	99.42	63.9	95.35	93.05
29E10_CONS.042	2.19	304.3	3.11	95.13	98.72	65.9	95.03	93.07

FIGURE 18 (continued)

29E10_CONS.043	1.99	278.6	2.6	95.59	99.38	63	95.89	93.69
29E10_CONS.044	2.91	317.1	2.33	95.97	99.29	62.2	96.09	93.83
29E10_CONS.045	2.33	347.1	2.73	95.4	98.83	62.6	95.85	93.85
29E10_CONS.046	3.24	291.4	2.12	96.22	99.48	64.8	96.5	93.94
29E10_CONS.047	2.97	274.3	2.11	96.47	99.32	66.4	96.33	94.07
29E10_CONS.048	3.46	287.1	1	96.99	99.30	64.4	97.58	94.94
29E10_CONS.049	3.49	321.4	2.52	95.52	99.33	61.5	95.67	93.86
29E10_CONS.050	3.28	265.7	4.18	93.31	99.75	67.7	92.93	91.42
29E10_CONS.051	3.34	282.9	2.93	95.56	99.15	66.3	95.21	92.83
29E10_CONS.052	3.35	270.0	3.75	94.37	99.27	65.4	93.71	92.35
29E10_CONS.053	3.36	321.4	3.68	87.67	99.40	67.3	88.61	86.42
29E10_CONS.054	2.60	282.9	4.26	93.81	99.78	65.2	93.4	93.17
29E10_CONS.055	2.29	240.0	4.56	90.82	99.91	67.4	90.73	88.91
29E10_CONS.056	2.63	342.9	3.27	85.79	99.91	64.8	88.33	86.29
29E10_CONS.057	3.69	304.3	3.62	93.11	99.87	64.1	92.95	92.25
29E10_CONS.058	3.02	338.6	3.54	88.27	99.92	64.3	88.73	87.77
29E10_CONS.059	2.94	295.7	3.91	93.14	99.84	66.7	92.72	91.7

* used as a control

FIGURE 18 (continued)

Table 5 CD112R Yeast Display Engineering 2

Alias	CD112R Jurkat RGA EC50 (nM)	SEC pre-MP (s)	SEC MP (s)	MPN NR MP (s)
1E1.016*	0.26	6.4	88.36	99.09
1E1.016.002	0.85	7.9	86.7	98.48
1E1.016.004	0.38	nd	nd	98.51
1E1.016.005	0.30	7.4	85.69	98.85
1E1.016.007	0.37	9.2	83.9	98.79
1E1.016.008	0.26	8.4	83.59	98.74
1E1.016.009	2.56	nd	nd	97.67
1E1.016.010	1.06	8	87.15	98.78
1E1.016.012	0.39	1	97.15	99.06
1E1.016.013	0.34	7.7	85.7	98.83
1E1.016.014	0.37	nd	nd	98.84
1E1.016.015	0.44	9.1	84.56	99.01
1E1.016.016	0.30	8.3	84.3	98.95
1E1.016.018	0.47	8.6	84.96	98.71
1E1.016.020	0.50	nd	nd	96.45
1E1.016.021	0.30	7.8	85.31	98.96
1E1.016.023	0.38	8.6	84.03	98.93
1E1.016.024	0.26	8.3	83.93	98.95
1E1.016.025	0.64	0.8	96.95	98.21
1E1.016.026	0.48	7.2	86.29	98.66
1E1.016.027	0.41	nd	nd	97.59
1E1.016.028	0.32	0.7	97.8	98.56
1E1.016.029	0.31	7.4	85.66	98.85
1E1.016.030	0.28	1.1	96.91	98.28
1E1.016.031	0.31	7	85.33	99.03
1E1.016.032	0.25	7.9	84.47	98.88
1E1.016.033	3.06	0.7	97.7	99.59
1E1.016.034	1.20	7.1	86.53	98.68
1E1.016.035	0.48	0.8	98.77	99.56
1E1.016.036	0.44	0.7	97.91	99.66
1E1.016.037	0.34	7.2	86.33	98.95
1E1.016.038	0.33	0.9	97.67	99.70
1E1.016.039	0.52	7.8	85.42	99.08
1E1.016.040	0.27	7.9	85.02	99.01
1E1.016.041	2.11	0.6	98.98	99.65
1E1.016.042	1.23	6.1	89.2	99.21
1E1.016.043	0.41	0.6	99.42	98.65
1E1.016.044	0.40	0.7	98.01	99.74
1E1.016.045	0.33	6.3	88.43	96.14
1E1.016.046	0.32	0.7	98.01	99.96

FIGURE 18 (continued)

1F1.016.047	0.46	6.5	88.63	99.37
1F1.016.048	0.27	7.1	87.21	99.19
1F1.016.049	0.53	0.6	97.79	99.80
1F1.016.050	0.46	6.2	88.71	99.16
1F1.016.051	0.31	0.6	98.96	99.74
1F1.016.052	0.32	0.6	98.11	99.77
1F1.016.053	0.29	6.4	87.86	99.27
1F1.016.054	0.27	0.9	97.79	99.69
1F1.016.055	0.36	6.7	87.77	99.15
1F1.016.056	0.27	6.7	87.39	99.15
1F1.016.057	0.42	0.7	98.78	85.31
1F1.016.058	0.39	7.8	86.44	96.08
1F1.016.059	0.31	0.7	99.32	99.60
1F1.016.060	0.29	0.6	98.05	99.43
1F1.016.061	0.29	7.8	85.78	99.06
1F1.016.062	0.29	0.8	97.82	99.49
1F1.016.063	0.31	8.1	85.72	99.25
1F1.016.064	0.29	8.4	85.04	99.14
1F1.016.065	2.77	0.6	98.97	99.91
1F1.016.066	1.42	6.7	87.83	98.97
1F1.016.067	0.53	0.6	98.87	99.53
1F1.016.068	0.50	0.6	98.12	99.81
1F1.016.069	0.38	7.1	86.83	99.14
1F1.016.070	0.35	0.6	97.92	99.69
1F1.016.071	0.50	6.4	87.57	99.30
1F1.016.072	0.34	7.3	86.42	99.17
1F1.016.073	0.61	0.6	98.14	99.61
1F1.016.074	0.55	5.5	90.13	99.40
1F1.016.075	0.37	0.6	99.02	99.55
1F1.016.076	0.37	0.6	98.27	99.80
1F1.016.077	0.32	6.3	88.69	99.25
1F1.016.078	0.33	0.7	98.1	99.83
1F1.016.079	0.38	5.7	90.09	99.95
1F1.016.080	0.32	6.7	88.13	99.87
1F1.016.081	0.00	nd	nd	99.45
1F1.016.082	3.95	7.4	85.73	98.87
1F1.016.083	0.00	nd	nd	0.00
1F1.016.084	0.96	0.9	98.38	99.10
1F1.016.085	0.47	7.4	85.89	99.09
1F1.016.086	0.00	nd	nd	0.00
1F1.016.087	0.81	7.5	84.5	99.07
1F1.016.088	0.35	7.8	84.81	98.98
1F1.016.089	0.44	0.6	98.03	99.72

FIGURE 18 (continued)

1F1.016.090	0.44	5.3	90.88	99.59
1F1.016.091	0.34	0.6	98.07	99.63
1F1.016.092	0.32	0.7	98.11	99.94
1F1.016.093	0.35	6.2	89.2	99.46
1F1.016.094	0.32	0.9	97.83	99.92
1F1.016.095	0.35	5.7	90.64	99.77
1F1.016.096	0.25	6.7	88.92	94.95
1F1.016.097	2.28	0.8	97.95	98.76
1F1.016.098	1.41	5.3	91.17	95.57
1F1.016.099	0.55	0.9	97.47	98.59
1F1.016.100	0.40	0.6	98.07	98.62
1F1.016.101	0.31	5.6	90.33	94.75
1F1.016.102	0.31	0.8	98.02	98.87
1F1.016.103	0.45	5.7	90.85	95.00
1F1.016.104	0.30	7.1	88.61	94.19
1F1.016.105	2.64	0.6	98.06	98.74
1F1.016.106	1.61	6.2	88.28	93.22
1F1.016.107	0.50	1.2	96.7	98.23
1F1.016.108	0.48	0.8	97.78	98.28
1F1.016.109	0.32	6.6	87.82	93.49
1F1.016.110	0.33	0.7	98.01	98.69
1F1.016.111	0.51	6.8	87.42	92.87
1F1.016.112	0.32	7.5	86.68	93.20
1F1.016.113	2.13	0.7	97.95	98.56
1F1.016.114	1.05	6.7	87.79	92.85
1F1.016.115	0.54	1.1	97.07	98.56
1F1.016.116	0.56	0.9	97.61	98.58
1F1.016.117	0.33	6.6	88.1	92.78
1F1.016.118	0.40	0.7	97.95	96.12
1F1.016.119	0.66	7	87.13	92.18
1F1.016.120	0.27	7.8	86.25	91.34
1F1.016.121	2.32	0.8	97.99	98.85
1F1.016.122	1.16	5.5	91.24	93.12
1F1.016.123	0.43	0.9	97.62	99.25
1F1.016.124	0.42	0.9	97.69	98.83
1F1.016.125	0.29	5.5	90.86	87.51
1F1.016.126	0.28	0.9	97.94	99.42
1F1.016.127	0.44	5.4	91.5	97.14
1F1.016.128	0.31	1	97.13	99.02
1F1.016.129	0.30	1	97.75	97.35
1F1.016.130	0.34	0.8	97.51	98.85
1F1.016.131	0.34	0.5	97.05	98.02
1F1.016.132	0.29	6.9	88.32	94.44

FIGURE 18 (continued)

1F1.016.139	0.47	0.8	97.54	95.45
1F1.016.140	0.96	nd	nd	97.38
1F1.016.141	0.47	1.5	96.92	99.23
1F1.016.142	1.78	0.7	97.83	99.03
1F1.016.148	0.84	0.7	97.4	98.78
1F1.016.149	0.39	0.7	98.08	98.85
1F1.016.150	0.31	0.7	97.92	98.84
1F1.016.151	0.32	1.1	97.78	98.50
1F1.016.152	0.70	0.8	97.98	98.87
1F1.016.153	0.98	0.6	97.98	98.62
1F1.016.154	0.46	0.6	98.09	98.82
1F1.016.155	0.41	0.7	97.64	98.50
1F1.016.156	0.28	1.3	97.52	98.76
1F1.016.157	0.50	0.7	97.96	98.83
1F1.016.158	0.94	1.3	97.5	98.75
1F1.016.159	0.42	11.1	80.86	91.35

* used as a control.

FIGURE 18 (continued)

Table 12: TIGIT Hotspot Engineering

Alias	Recovery (mg/L)	SEC pre-MP (%)	Tagg (°C)	Ave Jurkat RGA Interpolated EC50 (µg/mL) (n=2)
4G10	348	4	65	0.39
11A3	223	1	70	0.14
28B8	140	9	76	0.38
39D2	224	12	64	0.19
43B7	173	10	67	0.17
55G7	17	25	nd	3.18
66H9	161	2	67	0.22
43B7.002	245	12	69	0.15
58A7.002	171	7	73	0.52
58A7.003	183	6	66	0.73
66H9.004	132	2	70	0.75
66H9.005	165	3	66	0.67
66H9.006	121	2	69	0.50
66H9.007	141	2	68	0.27
66H9.008	106	2	68	0.28
66H9.009	152	2	67	0.19
66H9.010	155	2	69	0.23
58A7.002.004	193	9	69	0.65
58A7.002.005	207	12	70	0.80
58A7.002.006	218	9	70	0.91
58A7.002.008	259	12	66	1.46
58A7.002.009	217	11	67	0.66
58A7.003.001	187	6	69	9.90
58A7.003.002	161	12	74	7.04
58A7.003.004	185	8	71	0.65
58A7.003.005	165	10	67	0.41
58A7.003.006	150	9	71	0.49
58A7.003.008	191	11	70	0.39
58A7.003.009	171	10	71	0.87
58A7.003.016	173	16	69	8.60
58A7.003.019	151	15	69	4.59
55G7.004	8	29	nd	2.48
55G7.005	18	28	nd	1.21
55G7.006	19	31	nd	2.59
55G7.037	9	49	69	1.44
55G7.038	12	30	69	2.82
55G7.041	27	31	nd	1.37

FIGURE 18 (continued)

55G7.042	29	11	nd	2.87
55G7.043	23	19	nd	4.83
2888.003	148	7	74	0.32
2888.004	150	10	73	0.33
2888.005	153	8	69	0.29
2888.006	112	10	75	0.26
2888.007	131	7	77	0.31
2888.008	128	11	71	0.34
2888.009	122	9	78	0.33
43B7.002.001	193	8	66	0.25
43B7.002.002	240	14	64	0.24
43B7.002.003	252	14	69	0.37
43B7.002.004	240	11	69	0.22
43B7.002.005	229	11	70	0.23
43B7.002.006	199	9	72	0.16
43B7.002.007	219	9	72	0.27
43B7.002.008	201	7	72	0.11
43B7.002.009	223	18	70	0.21
43B7.002.010	227	16	70	0.23
43B7.002.011	274	13	69	0.21
43B7.002.012	250	13	69	0.15
43B7.002.013	199	12	68	0.31
43B7.002.014	211	11	68	0.21
43B7.002.015	217	7	71	0.17
43B7.002.016	212	9	72	0.21
43B7.002.017	261	17	68	0.23
43B7.002.018	281	16	69	0.28
43B7.002.019	206	12	70	0.28
43B7.002.020	207	11	71	0.17
39D2.003	209	12	66	0.39
39D2.004	225	11	65	0.17
39D2.006	206	11	65	0.22
39D2.011	183	10	66	0.25
39D2.013	203	9	65	0.15
39D2.014	174	12	66	0.31
39D2.015	192	12	66	0.28
39D2.016	223	10	66	0.24
39D2.018	178	9	68	0.20
39D2.020	129	10	67	0.37
39D2.022	198	9	62	0.23
39D2.024	191	11	57	0.19
39D2.025	182	10	54	0.17
39D2.027	101	9	58	0.15

FIGURE 18 (continued)

39D2.028	209	11	60	0.21
39D2.030	187	9	66	0.15
39D2.031	153	14	68	0.17
39D2.032	173	11	69	0.17
39D2.034	188	0	69	0.21
39D2.037	166	19	67	0.26
39D2.038	153	20	68	0.26
39D2.039	223	16	70	0.22
39D2.040	176	19	65	0.19
4G10.003	498	4	64	0.33
4G10.004	493	5	66	0.55
4G10.005	455	5	67	0.61
4G10.006	379	6	68	0.75
4G10.007	336	5	66	0.85
4G10.008	357	5	66	0.73
4G10.009	327	6	69	0.38
4G10.010	370	7	69	0.90
4G10.011	341	5	68	0.39
4G10.012	345	5	68	0.98
4G10.013	426	6	70	0.51
4G10.014	423	6	67	1.03
4G10.015	394	5	67	0.69
4G10.016	368	5	70	1.51
4G10.017	357	6	71	1.51
4G10.018	346	7	67	2.57
4G10.019	298	6	66	2.07
4G10.020	328	8	66	1.77
4G10.021	321	7	69	1.76
4G10.022	367	6	73	2.95
4G10.023	370	6	72	1.22
4G10.024	375	6	71	0.99
4G10.025	404	5	72	1.10
4G10.026	366	6	72	2.03
4G10.027	390	5	55	2.01
11A3.003	221	1	66	0.12
11A3.004	172	2	64	0.11
11A3.005	221	1	69	0.09
11A3.006	242	2	76	4.17
11A3.007	60	3	73	2.11
11A3.009	97	2	75	0.14
11A3.010	169	1	71	0.11
11A3.011	225	2	68	9.85
11A3.012	192	3	68	3.56

FIGURE 18 (continued)

11A3.015	202	3	67	2.16
11A3.018	223	2	69	4.28
11A3.021	180	2	72	2.84
11A3.024	218	2	66	2.76

FIGURE 18 (continued)

Table 13 TIGIT Framework Engineering (Fv 1 Target = Human TIGIT)

Alias	Jurkat RGA Average EC50 nM	Titer (mg/L)	Recovery (mg/L)	SEC pre- MP (%)	MCE HR MP (%)	Tm1	SEC MP Zw/40C	SEC ΔMP Zw/40C
55G7.041*	4.49	692	477	7.2	95.8	66.8	97.6	1.7
55G7.041.001	6.61	756	486	5.2	97.0	66.5	97.1	-0.2
55G7.041.002	7.04	753	545	4.3	96.7	65.2	98.0	0.4
55G7.041.004	6.70	774	548	3.6	97.5	70.2	97.6	-0.8
55G7.041.006	4.91	762	548	4.8	97.1	66.6	98.5	0.7
55G7.041.008	5.92	764	522	3.4	97.5	68.8	97.9	-0.7
55G7.041.010	4.58	695	516	3.2	97.3	68.8	97.5	-0.6
43B7.002*	3.44	396	305	2.2	97.4	76.9	98.2	-0.8
43B7.002.015.006	3.90	485	337	1.9	92.5	75.2	98.5	-1.0
43B7.002.015.008	6.59	644	373	6.2	94.2	71.6	98.8	0.6
43B7.002.015.009	3.30	483	341	0.7	97.0	72.0	98.8	-0.8
43B7.002.015.010	3.02	511	392	2.1	96.3	72.5	96.7	-2.1
43B7.002.015.012	3.30	519	289	1.9	98.5	70.9	98.7	-0.5
43B7.002.015.014	4.72	574	350	2.5	97.2	70.7	98.0	-0.8
43B7.002.015.017	7.46	439	256	8.3	98.1	70.2	98.8	2.2
66H9*	6.38	511	363	4.6	96.0	80.5	98.8	0.1
66H9.009*	6.00	509	341	4.7	95.7	71.9	98.0	-0.5
66H9.011	5.62	468	311	0.6	99.1	72.8	99.4	-0.5
66H9.012	4.88	595	405	3.2	97.9	73.4	96.3	-2.6
66H9.017	9.22	463	331	0.8	98.3	73.7	99.3	-0.5

* used as a control

FIGURE 18 (continued)

Table 14 TIGIT Yeast Display Engineering 1

Alias	Jurkat RGA Ave transit EC50 (nM)	Jurkat RGA Ave Max Activity	Recovery (mg/l)	SEC pre- MP (%)	MCE NR MP (%)
4387.002.015*	1.28	5.39	176	2.1	99.1
4387.002.015.006	1.60	4.62	234	5.3	98.4
4387.002.015.008	1.24	5.16	242	0.8	99.5
4387.002.015.002	2.21	5.39	267	4.5	98.3
4387.002.015.014	0.91	4.62	274	0.9	96.9
4387.002.015.AM001	0.60	4.61	197	6.4	99.2
4387.002.015.AM002	0.70	5.26	200	4.2	99.2
4387.002.015.AM003	0.79	6.12	200	2.7	99.0
4387.002.015.AM022	0.64	4.70	218	9.2	98.7
4387.002.015.AM005	1.11	6.40	224	4.8	98.8
4387.002.015.AM006	1.29	4.94	175	6.8	98.8
4387.002.015.AM007	1.04	5.18	204	5.8	99.0
4387.002.015.AM008	1.05	4.94	140	4.9	98.9
4387.002.015.AM009	1.04	5.81	226	4.4	99.0
4387.002.015.AM010	0.66	5.48	215	7.3	98.7
4387.002.015.AM011	0.82	6.19	226	4.1	99.0
4387.002.015.AM012	1.45	6.51	205	4.4	98.8
4387.002.015.AM013	1.22	6.68	182	5.5	98.9
4387.002.015.AM108	0.67	4.81	215	11.6	99.0
4387.002.015.AM015	0.74	5.61	217	7.6	98.9
4387.002.015.AM104	0.68	5.61	243	21.1	99.1
4387.002.015.AM017	0.70	5.23	221	5.4	99.0
4387.002.015.AM018	0.62	5.61	200	3.0	99.0
4387.002.015.AM019	0.84	5.73	205	8.2	98.7
4387.002.015.AM016	0.74	4.66	200	6.3	98.9
4387.002.015.AM021	1.43	6.35	187	11.0	98.1
4387.002.015.AM092	0.75	4.79	159	14.3	99.0
4387.002.015.AM023	1.34	4.95	188	6.7	98.8
4387.002.015.AM024	0.85	4.84	184	5.3	98.8
4387.002.015.AM025	1.01	5.17	204	10.9	98.7
4387.002.015.AM026	0.92	6.10	192	7.0	99.3
4387.002.015.AM027	1.28	5.63	190	3.9	95.9
4387.002.015.AM096	0.78	6.27	209	15.3	98.6
4387.002.015.AM029	1.07	6.18	206	9.8	99.0
4387.002.015.AM030	1.18	5.34	182	11.1	99.0
4387.002.015.014.AM008	0.78	5.92	178	0.7	99.4
4387.002.015.AM032	0.66	4.95	153	7.7	98.9
4387.002.015.AM033	0.68	4.87	199	7.3	99.3
4387.002.015.AM034	1.40	6.78	231	11.4	98.6

FIGURE 18 (continued)

43B7.002.015.AM035	0.82	5.73	203	5.3	98.8
43B7.002.015.AM091	0.84	5.10	225	18.7	99.4
43B7.002.015.AM037	1.22	5.97	100	2.2	99.4
43B7.002.015.AM038	1.26	5.36	206	6.8	98.9
43B7.002.015.AM039	1.07	4.93	205	4.8	98.8
43B7.002.015.AM040	1.80	5.20	192	7.9	98.8
43B7.002.015.AM041	1.23	4.98	176	4.6	98.9
43B7.002.015.AM042	0.69	5.37	161	5.0	98.8
43B7.002.015.AM043	0.96	5.63	201	4.3	99.0
43B7.002.015.AM044	1.59	6.32	212	5.8	98.8
43B7.002.015.AM045	1.07	6.03	181	12.8	98.9
43B7.002.015.AM046	1.19	5.62	198	13.1	98.8
43B7.002.015.AM047	1.81	5.06	192	12.8	99.1
43B7.002.015.AM048	1.25	5.56	169	11.6	99.2
43B7.002.015.AM049	0.62	4.84	200	11.2	99.0
43B7.002.015.AM050	0.78	5.70	162	12.9	99.5
43B7.002.015.AM051	1.18	5.98	203	14.6	99.5
43B7.002.015.AM052	0.83	6.29	123	6.3	99.0
43B7.002.015.AM053	0.87	5.76	188	12.2	98.2
43B7.002.015.AM054	1.31	5.35	221	14.7	98.8
43B7.002.015.AM055	0.75	4.63	186	16.3	98.5
43B7.002.015.AM056	1.55	6.27	198	11.8	98.2
43B7.002.015.AM057	1.06	5.30	206	12.8	98.7
43B7.002.015.AM058	1.05	6.53	203	12.8	98.8
43B7.002.015.AM059	1.09	6.31	219	13.3	98.7
43B7.002.015.AM060	1.05	5.69	187	13.3	98.2
43B7.002.015.AM061	1.59	7.42	224	15.1	98.8
43B7.002.015.AM062	0.94	6.05	146	9.9	98.7
43B7.002.015.AM063	1.49	5.86	215	12.5	98.9
43B7.002.015.AM064	1.22	5.78	240	16.6	97.4
43B7.002.015.AM065	0.97	5.52	199	18.5	98.9
43B7.002.015.AM066	1.36	6.80	213	11.8	99.2
43B7.002.015.AM067	1.04	6.11	198	12.3	99.4
43B7.002.015.AM068	1.14	6.27	196	11.5	99.6
43B7.002.015.AM069	1.05	6.13	212	14.3	98.9
43B7.002.015.AM070	0.84	5.24	175	16.7	99.6
43B7.002.015.AM071	1.24	5.24	209	16.0	99.6
43B7.002.015.AM072	0.51	5.01	155	8.5	98.8
43B7.002.015.AM073	1.45	7.02	217	11.0	99.2
43B7.002.015.AM074	1.15	6.11	241	18.6	98.9
43B7.002.015.AM075	1.26	5.51	219	15.1	99.1
43B7.002.015.014.AM002	0.86	6.73	299	1.9	98.5
43B7.002.015.AM077	1.37	5.51	176	14.2	98.2

FIGURE 18 (continued)

4387.002.015.AM078	0.57	4.74	179	13.0	98.9
4387.002.015.AM079	0.86	5.07	197	15.2	99.4
4387.002.015.AM080	1.17	5.32	168	13.8	98.8
4387.002.015.AM081	1.19	5.74	194	15.9	99.6
4387.002.015.AM082	0.89	6.67	135	11.2	99.7
4387.002.015.AM102	0.87	5.82	148	13.8	99.1
4387.002.015.AM084	1.76	6.34	223	14.1	99.6
4387.002.015.AM083	0.88	7.82	193	15.0	99.4
4387.002.015.014.AM010	0.88	5.03	296	1.2	88.8
4387.002.015.AM087	1.45	5.02	190	15.5	99.0
4387.002.015.AM014	0.90	5.05	199	4.7	99.3
4387.002.015.AM089	1.29	4.96	229	19.5	98.6
4387.002.015.AM090	1.35	5.60	203	18.2	99.1
4387.002.015.AM036	0.91	5.72	185	4.2	98.9
4387.002.015.AM020	0.92	6.23	191	4.9	98.7
4387.002.015.AM098	0.92	4.79	222	18.6	98.5
4387.002.015.AM094	1.61	6.16	252	18.9	98.1
4387.002.015.AM095	1.30	4.59	229	18.8	98.3
4387.002.015.AM086	0.93	5.80	202	15.6	99.3
4387.002.015.AM076	0.93	5.96	196	14.1	98.8
4387.002.015.AM093	0.94	6.08	222	16.5	98.5
4387.002.015.AM099	1.11	5.39	229	19.5	99.0
4387.002.015.AM100	1.78	5.87	223	20.3	98.5
4387.002.015.AM101	1.13	6.63	224	20.0	98.1
4387.002.015.AM004	0.95	5.55	219	5.8	98.8
4387.002.015.AM103	1.32	5.17	227	14.3	99.1
4387.002.015.AM118	0.96	5.16	239	13.3	99.2
4387.002.015.AM105	1.67	5.17	201	12.9	99.4
4387.002.015.AM028	0.97	5.83	185	8.1	98.7
4387.002.015.AM107	1.47	5.30	176	10.8	98.7
4387.002.015.AM031	0.98	5.11	226	10.1	98.7
4387.002.015.AM109	0.98	6.08	205	13.1	99.0
4387.002.015.AM110	1.51	5.44	171	11.2	98.5
4387.002.015.AM111	1.41	6.31	197	12.9	98.7
4387.002.015.AM112	1.22	7.32	129	10.5	98.2
4387.002.015.AM113	1.19	4.93	197	18.0	98.7
4387.002.015.AM114	1.30	4.60	219	13.0	98.9
4387.002.015.AM115	1.21	4.93	227	17.2	99.4
4387.002.015.AM116	1.16	5.12	214	12.1	98.9
4387.002.015.AM117	1.38	5.69	193	8.8	98.8
4387.002.015.AM085	0.98	5.25	207	18.2	98.8
4387.002.015.AM119	1.24	5.56	222	15.4	98.5
4387.002.015.AM120	0.96	6.95	208	17.9	94.8

FIGURE 18 (continued)

43B7.002.015.AM121	3.43	3.63	218	14.0	96.2
43B7.002.015.AM122	0.66	5.01	175	11.0	97.1
43B7.002.015.AM123	1.13	5.19	198	10.4	91.9
43B7.002.015.AM124	1.25	5.37	251	18.3	97.4
43B7.002.015.AM125	1.47	5.99	222	17.9	96.3
43B7.002.015.AM126	1.39	5.55	212	9.7	93.9
43B7.002.015.AM127	1.79	4.71	179	7.6	96.5
43B7.002.015.AM128	1.46	6.75	233	13.8	95.5
43B7.002.015.AM129	1.37	5.50	243	16.1	96.4
43B7.002.015.AM130	1.07	4.98	198	18.6	96.4
43B7.002.015.AM131	1.37	5.56	208	14.4	96.5
43B7.002.015.AM132	1.17	5.31	175	11.6	99.4
43B7.002.015.AM133	1.23	6.12	222	11.7	98.9
43B7.002.015.AM134	1.45	4.91	243	17.6	99.1
43B7.002.015.AM135	1.26	5.07	200	18.4	99.5
43B7.002.015.AM136	1.18	6.18	218	20.0	99.2
43B7.002.015.AM137	1.46	4.62	210	28.5	99.4
43B7.002.015.AM138	1.22	6.07	203	16.0	96.1
43B7.002.015.AM139	1.81	5.33	208	18.3	96.8
43B7.002.015.AM140	1.84	5.39	202	16.6	96.8
43B7.002.015.AM141	1.38	6.36	224	18.0	95.9
43B7.002.015.AM142	0.76	5.07	143	16.5	96.1
43B7.002.015.AM143	1.31	5.89	208	19.8	96.7
43B7.002.015.AM144	1.36	6.79	216	19.8	95.8
43B7.002.015.002.AM001	2.77	5.16	243	10.5	89.9
43B7.002.015.002.AM002	1.71	4.89	258	9.3	99.0
43B7.002.015.002.AM003	1.95	4.86	256	9.3	87.8
43B7.002.015.002.AM004	2.06	5.09	254	8.4	92.6
43B7.002.015.002.AM005	1.83	5.48	250	11.2	99.0
43B7.002.015.002.AM006	2.43	5.50	231	8.9	99.0
43B7.002.015.002.AM007	4.12	5.46	221	9.2	89.1
43B7.002.015.002.AM008	1.49	6.59	192	7.9	98.7
43B7.002.015.002.AM009	2.67	5.42	221	10.9	98.8
43B7.002.015.002.AM010	2.57	4.61	255	10.5	99.2
43B7.002.015.006.AM001	1.26	5.17	307	2.1	98.9
43B7.002.015.006.AM002	1.78	6.66	272	0.9	98.5
43B7.002.015.006.AM003	1.08	6.27	290	1.9	96.1
43B7.002.015.006.AM004	1.40	5.89	292	1.4	95.8
43B7.002.015.006.AM005	1.39	5.39	307	2.4	97.1
43B7.002.015.006.AM006	1.29	7.03	274	2.6	99.6
43B7.002.015.006.AM007	1.53	4.97	259	2.3	95.8
43B7.002.015.006.AM008	0.60	5.32	201	0.6	89.5
43B7.002.015.006.AM009	0.92	5.05	266	0.8	98.8

FIGURE 18 (continued)

43B7.002.015.006.AM010	1.03	5.11	315	2.3	99.3
43B7.002.015.008.AM001	2.38	6.45	258	10.0	99.1
43B7.002.015.008.AM002	1.08	5.07	264	8.4	99.2
43B7.002.015.008.AM003	2.03	4.83	276	8.6	98.2
43B7.002.015.008.AM004	2.26	6.63	265	8.8	98.0
43B7.002.015.008.AM005	1.73	5.60	277	11.4	97.2
43B7.002.015.008.AM006	1.96	5.62	254	7.6	96.1
43B7.002.015.008.AM007	2.46	6.10	229	8.2	99.7
43B7.002.015.008.AM008	1.29	5.41	196	9.0	97.1
43B7.002.015.008.AM009	4.46	5.14	248	9.9	90.9
43B7.002.015.008.AM010	2.22	5.73	256	11.0	98.2
43B7.002.015.014.AM001	1.30	5.05	291	1.9	99.6
43B7.002.015.AM088	1.01	5.50	192	13.9	99.6
43B7.002.015.014.AM003	1.36	5.30	294	1.9	98.7
43B7.002.015.014.AM004	1.04	5.85	289	1.5	98.8
43B7.002.015.014.AM005	0.90	4.65	276	1.7	94.9
43B7.002.015.014.AM006	1.65	5.75	291	1.4	96.5
43B7.002.015.014.AM007	1.42	5.52	150	0.8	99.4
43B7.002.015.AM106	1.01	5.33	201	16.3	99.2
43B7.002.015.014.AM009	1.34	6.66	284	1.3	96.8
43B7.002.015.AM097	1.02	4.98	215	14.8	98.0

* used as a control.

FIGURE 18 (continued)

Table 15 TIGIT Yeast Display Engineering 2

Alias	TIGIT Jurkat RGA EC50 (nM)	SEC pre- MP (%)	SEC MP (%)	IMCE NR MP (%)
58A7.003.008*	3.53	6.14	93.86	97.71
58A7.003.008.001	1.86	3.68	96.32	97.55
58A7.003.008.002	3.07	7.55	92.45	91.05
58A7.003.008.003	2.17	3.39	96.61	97.83
58A7.003.008.005	1.99	16.07	79.1	97.72
58A7.003.008.007	1.60	10.44	89.56	97.76
58A7.003.008.008	1.55	12.22	87.56	97.06
58A7.003.008.009	3.18	3.4	96.6	97.69
58A7.003.008.010	2.71	3.85	96.15	96.94
58A7.003.008.011	2.17	2.81	97.19	95.49
58A7.003.008.012	3.97	5.55	94.45	97.41
58A7.003.008.013	4.41	5.79	94.21	97.85
58A7.003.008.014	2.80	3.48	96.52	97.90
58A7.003.008.015	2.04	3.92	96.08	97.81
58A7.003.008.016	3.98	0.38	99.62	97.93
58A7.003.008.017	4.16	0.36	99.64	97.04
58A7.003.008.018	1.67	4.04	95.45	95.77
58A7.003.008.019	2.02	5.12	94.88	96.72
58A7.003.008.020	3.23	4.97	95.03	96.34
58A7.003.008.021	5.57	6.95	93.05	97.50
58A7.003.008.022	3.29	3.51	95.93	98.28
58A7.003.008.023	2.14	3.56	96.12	97.91
58A7.003.008.024	2.31	4.24	95.43	97.58
58A7.003.008.027	4.25	2.66	97.34	97.64
58A7.003.008.034	2.34	1.13	98.87	97.33
58A7.003.008.035	4.48	7.26	92.74	98.07
58A7.003.008.036	7.42	1.88	98.12	98.17
58A7.003.008.037	6.71	11.13	88.87	97.81
58A7.003.008.038	7.77	7.32	92.68	97.73
58A7.003.008.039	4.28	6.5	93.5	97.08
58A7.003.008.040	8.23	6.2	93.8	97.62
58A7.003.008.041	6.37	6.42	93.58	97.70
58A7.003.008.042	3.83	6.98	93.02	98.25
58A7.003.008.043	2.29	8.42	91.58	97.88
58A7.003.008.044	3.44	7.71	92.29	98.18
58A7.003.008.045	4.09	7.52	92.48	98.48
58A7.003.008.046	1.64	0.6	99.4	98.20
58A7.003.008.047	1.80	4.57	95	98.55
58A7.003.008.048	7.11	8.57	90.96	97.81
58A7.003.008.049	3.60	8.25	91.75	97.62

FIGURE 18 (continued)

58A7.003.008.050	2.05	7.28	92.72	98.28
58A7.003.008.051	2.54	7.23	92.37	98.15
58A7.003.008.052	4.02	8.45	91.55	98.19
58A7.003.008.053	3.54	3.71	96.29	98.31
58A7.003.008.054	3.98	7.69	92.31	98.27
58A7.003.008.055	2.86	7.13	92.87	98.01
58A7.003.008.056	3.09	1.43	98.57	98.10
58A7.003.008.057	4.50	9.45	90.07	97.75
58A7.003.008.058	1.66	0.5	99.5	98.47
58A7.003.008.059	1.59	4.86	95.14	98.06
58A7.003.008.060	4.95	9.8	87.4	94.00
58A7.003.008.061	2.47	5.04	94.96	97.85
58A7.003.008.062	3.20	6.69	93.31	97.89
58A7.003.008.063	1.71	0.39	99.61	97.85
58A7.003.008.064	2.05	6.01	93.99	97.74
58A7.003.008.065	2.70	6.07	93.93	97.75
58A7.003.008.066	1.88	7.43	92.57	98.38
58A7.003.008.067	2.53	6.89	93.11	98.04
58A7.003.008.068	2.96	2.72	97.28	98.52
58A7.003.008.069	3.49	8.09	91.41	97.99
58A7.003.008.071	3.14	6.91	92.71	97.45
58A7.003.008.072	3.56	2.58	97.42	98.38
58A7.003.008.073	2.41	0.68	99.32	97.87
58A7.003.008.074	2.08	2.36	97.64	98.03
58A7.003.008.075	0.95	5.88	93.45	97.53
58A7.003.008.076	3.02	8.57	91.43	97.91
58A7.003.008.077	3.66	8.8	91.2	97.61
58A7.003.008.078	2.99	7.68	92.32	97.97
58A7.003.008.079	1.98	9.25	90.75	97.72
58A7.003.008.080	3.55	7.57	88.21	94.28
58A7.003.008.081	3.44	7.85	92.15	97.65
58A7.003.008.082	1.52	2.31	97.69	98.24
58A7.003.008.083	1.23	7.02	92.98	97.48
58A7.003.008.084	3.88	2.51	97.49	98.46
58A7.003.008.085	5.95	8.44	88.73	94.45
58A7.003.008.086	3.08	5.36	94.64	97.65
58A7.003.008.087	2.06	7.35	92.65	97.85
58A7.003.008.088	3.42	4.3	95.7	97.16
58A7.003.008.089	6.99	2.68	97.32	97.72
58A7.003.008.090	3.09	2.89	84.55	88.18
58A7.003.008.091	4.73	6.09	93.54	97.73
58A7.003.008.092	1.68	8.67	91.33	97.66
58A7.003.008.094	4.85	3.84	96.16	97.32

FIGURE 18 (continued)

58A7.003.008.096	8.51	14.92	85.08	98.80
58A7.003.008.098	7.08	11.49	88.01	97.44
58A7.003.008.099	7.97	13.24	83.35	93.84
58A7.003.008.100	9.92	13.83	85.86	93.90
58A7.003.008.103	6.96	7.66	91.81	97.17
58A7.003.008.104	6.97	7.07	92.41	96.82
58A7.003.008.106	9.07	14.18	85.82	96.15
58A7.003.008.110	5.59	7.6	92.4	97.45
58A7.003.008.111	2.56	7.31	92.11	97.29
58A7.003.008.113	3.37	5.1	94.9	97.71
58A7.003.008.134	5.86	1.59	98.41	97.56
58A7.003.008.136	4.73	9.78	90.22	94.33
58A7.003.008.138	4.94	8.34	91.66	97.51
58A7.003.008.139	5.14	9.34	88.38	93.66
58A7.003.008.140	4.71	8.75	91.25	97.49
58A7.003.008.141	5.47	8.24	91.76	97.38
58A7.003.008.142	9.81	13.67	86.33	97.21
58A7.003.008.143	3.42	5.23	94.77	97.05
58A7.003.008.144	3.79	5.56	94.44	96.85
58A7.003.008.145	2.15	6.12	93.88	96.24
58A7.003.008.146	5.80	24.1	75.9	97.15
58A7.003.008.147	6.00	7.32	92.68	96.50
58A7.003.008.148	4.55	22.44	77.56	97.07
58A7.003.008.150	6.20	4.27	95.73	97.24

* used as a control.

FIGURE 18 (continued)

Table 16 human TIGIT Binding Characterization

Alias	BioReg#	k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)	R_{max} (RU)
43B7.002.015	5310-3	3.81E+06	1.98E-04	5.19E-11	20.7
55G7.041	1325-4	1.82E+06	4.16E-04	2.28E-10	68.9
58A7.003.008	5311-4	1.94E+06	5.49E-04	2.83E-10	24.8
66H9.009	5312-3	2.07E+06	1.08E-04	5.23E-11	22.8

Table 17 cynomolgus TIGIT Binding Characterization

Alias	BioReg#	K_D (M)	R_{max} (RU)
43B7.002.015	5310-3	1.30E-08	25.1
55G7.041	1325-4	2.50E-08	80.8
58A7.003.008	5311-4	9.39E-09	25.3
66H9.009	5312-3	3.47E-08	21.4

Table 18 human CD112R Binding Characterization

Alias	BioReg#	k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)	R_{max} (RU)
1E1.016	8429-3	6.00E+06	1.17E-03	1.95E-10	23.3
11E4	8473-4	2.46E+06	1.34E-03	5.43E-10	35.4
24F1	12483-1	5.33E+06	1.69E-04	3.17E-11	29.8
24F1.001	12486-1	5.45E+06	1.87E-04	3.44E-11	34.8
29E10	12484-1	5.20E+06	1.64E-04	3.15E-11	27.0
31B3.001	12485-1	1.82E+06	4.17E-03	2.29E-09	23.6

Table 19 human CD112R (N81D) Binding Characterization

Alias	BioReg#	k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)	R_{max} (RU)
1E1.016	8429-3	5.26E+06	1.32E-03	2.50E-10	22.1
11E4	8473-4	1.94E+06	1.63E-03	8.41E-10	32.9
24F1	12483-1	4.82E+06	2.44E-04	5.06E-11	28.8
24F1.001	12486-1	4.48E+06	2.66E-04	5.94E-11	33.8
29E10	12484-1	5.04E+06	6.37E-04	1.26E-10	25.7
31B3.001	12485-1	1.82E+06	4.38E-03	2.40E-09	22.5

FIG. 19A

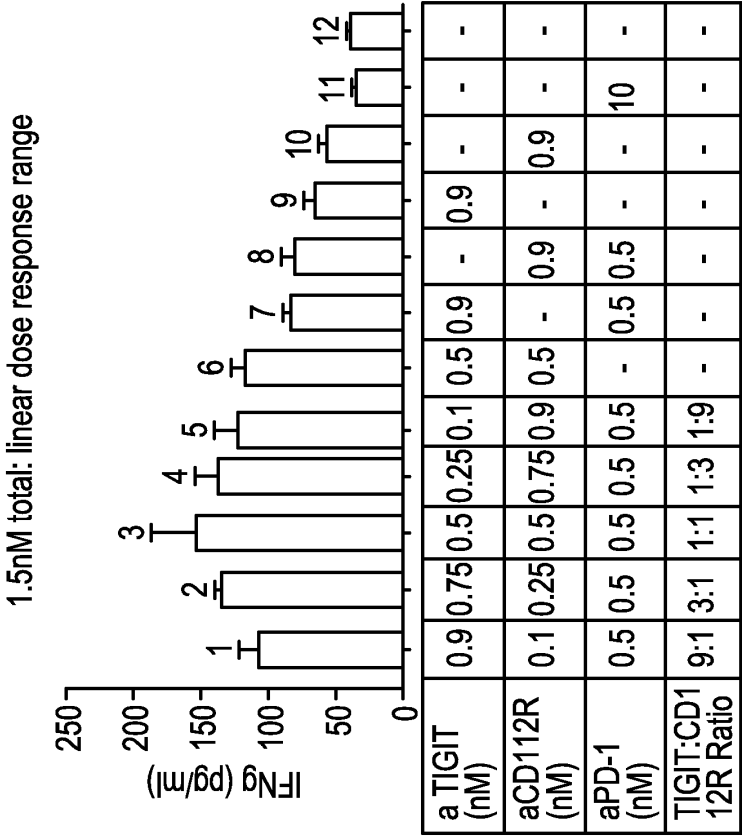
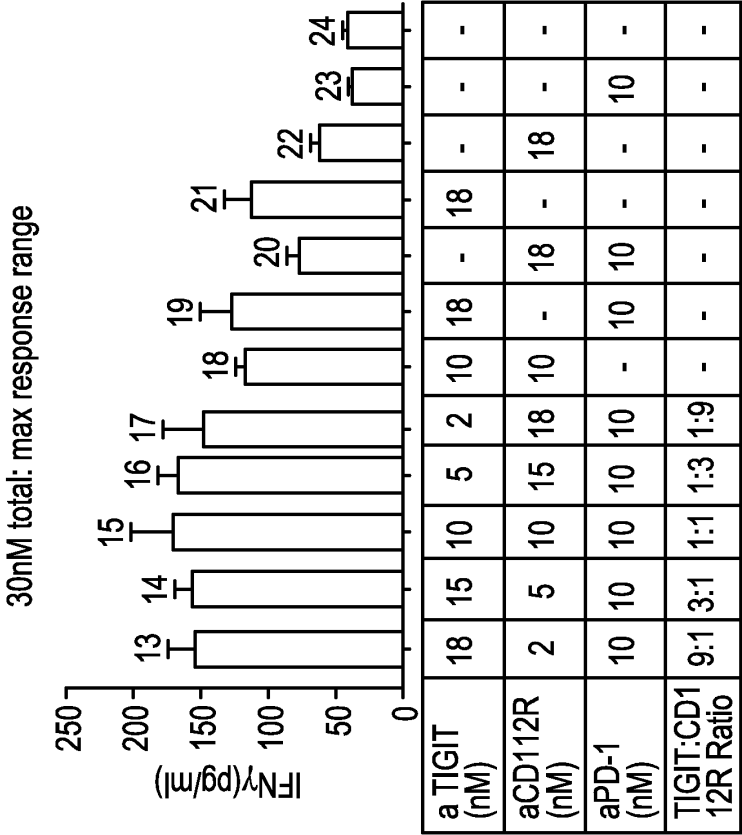


FIG. 19B



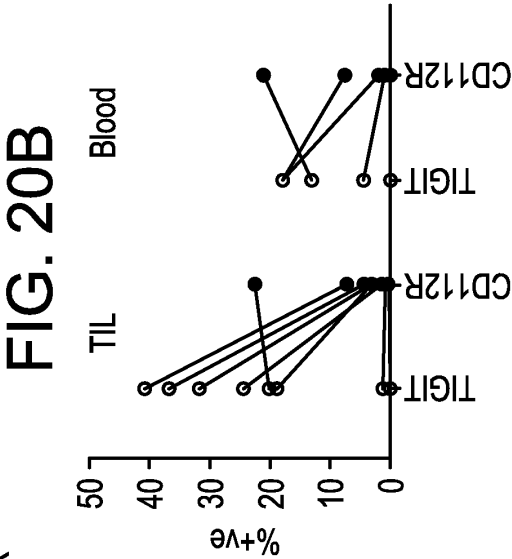
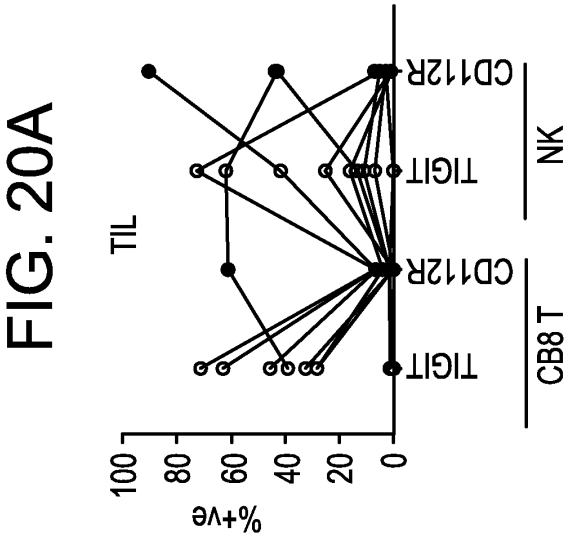
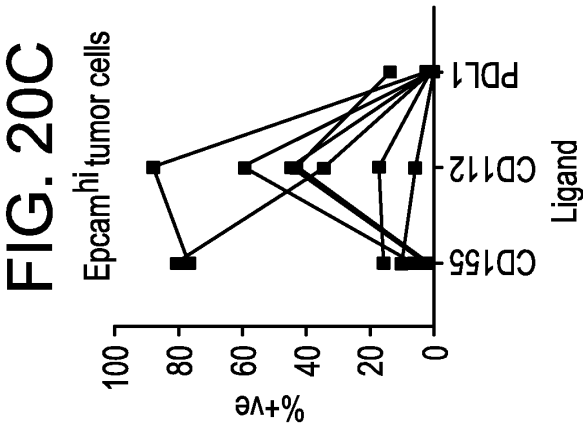
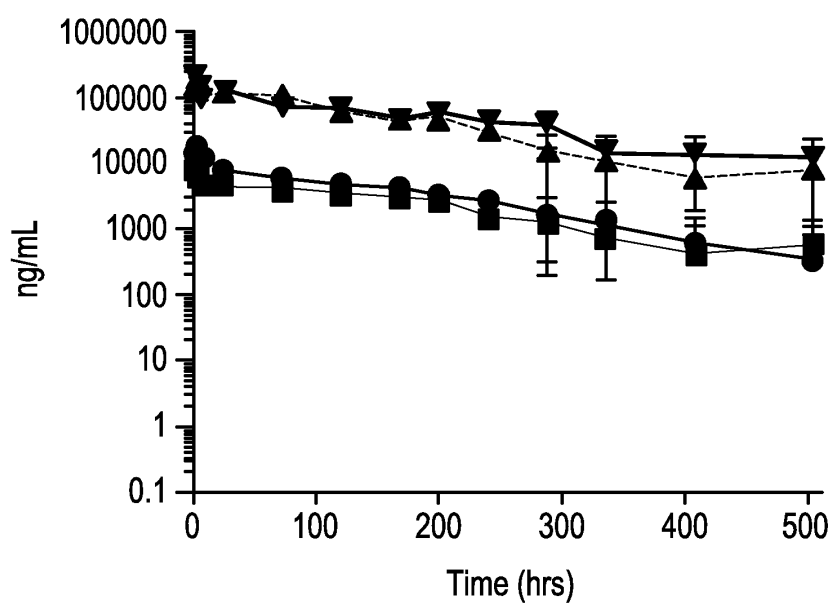


FIG. 21



- Group 1 anti-TIGIT 0.5 mg/kg
- Group 1 anti-CD112R 0.5 mg/kg
- ▲ Group 2 anti-TIGIT 5 mg/kg
- ▼ Group 3 anti-CD112R 5 mg/kg

FIG. 22A

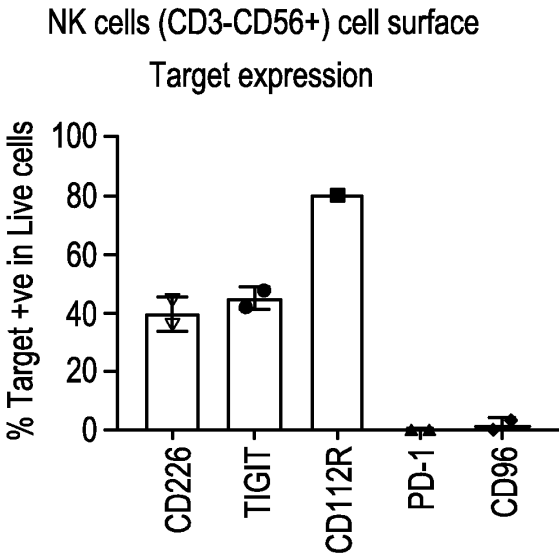


FIG. 22B

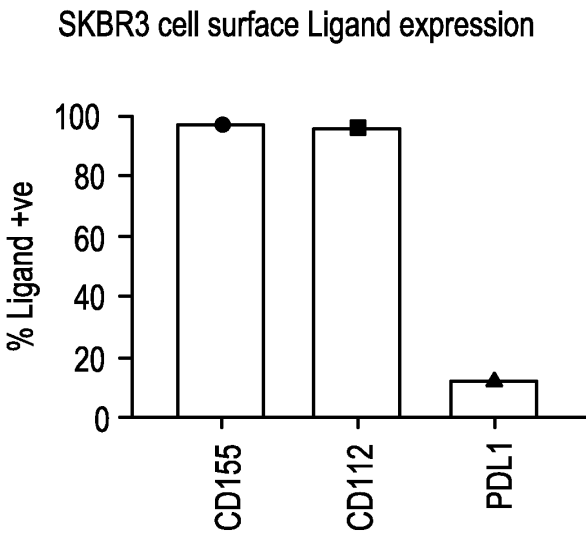


FIG. 22C

Tumor cell killing

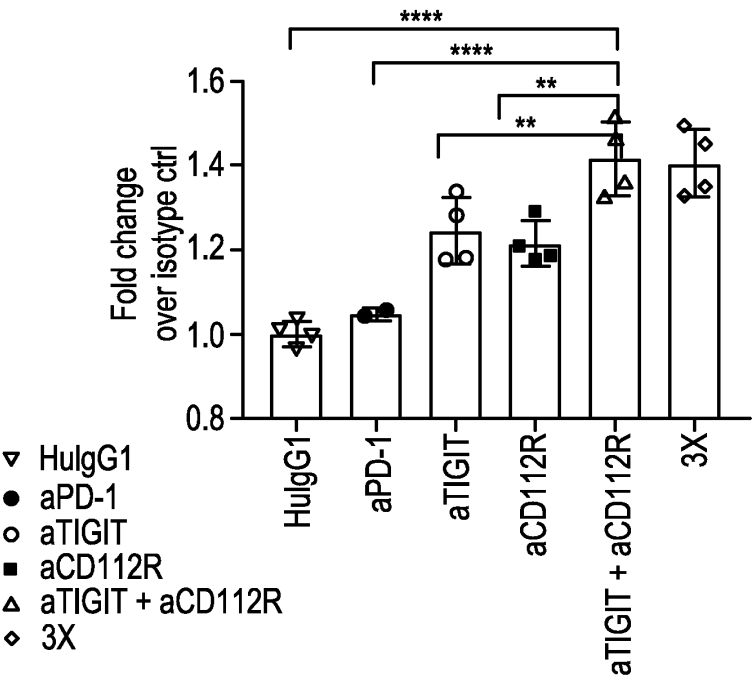


FIG. 22D

IFN γ induction

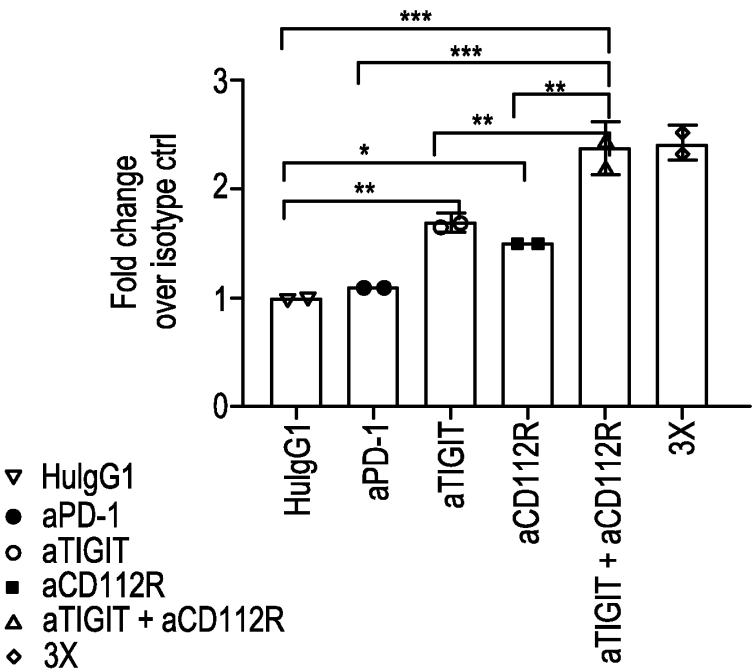


FIG. 23

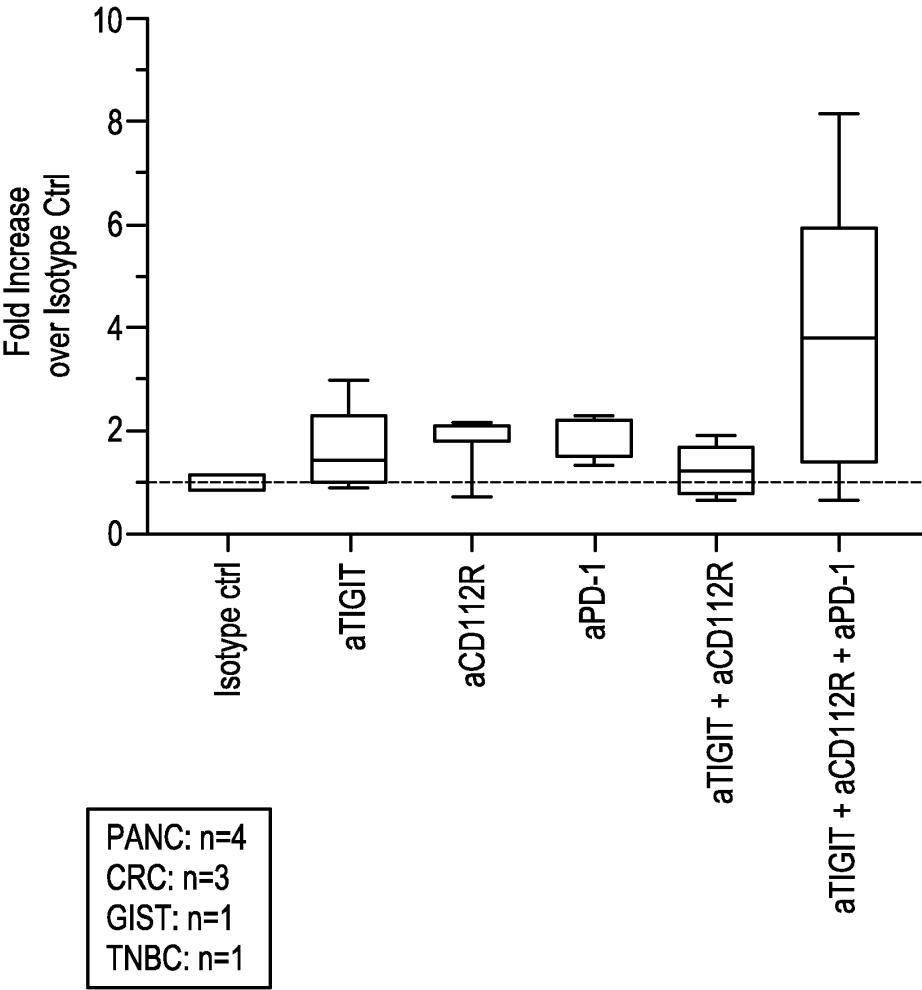


FIG. 24A

CT26

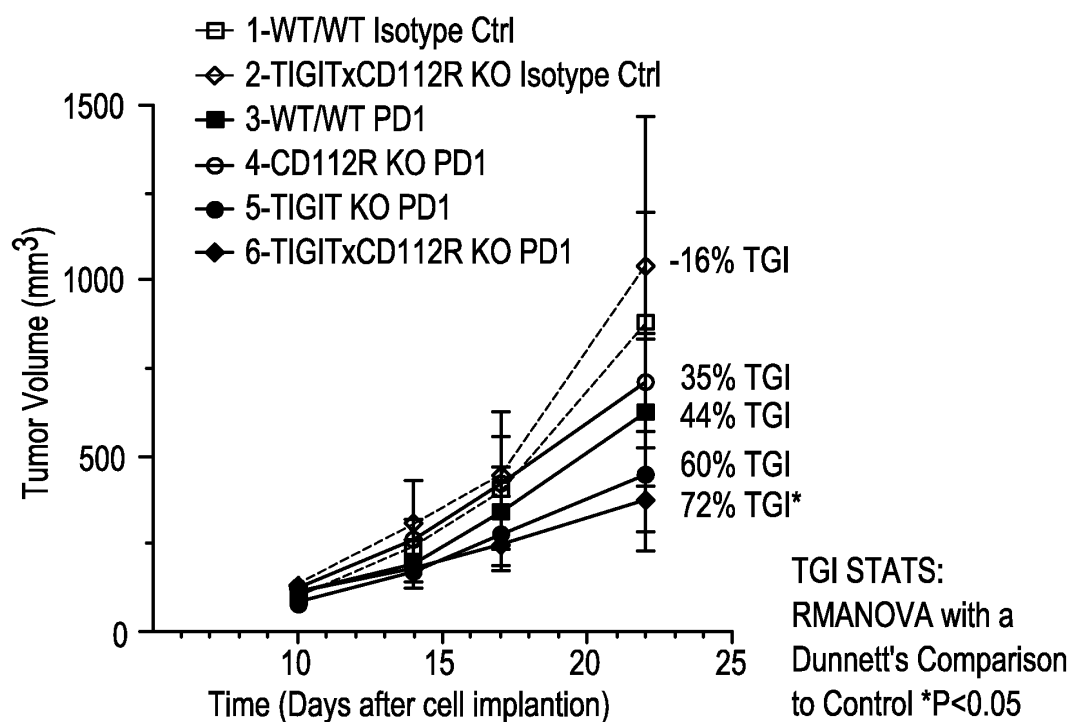


FIG. 24B

B16F10

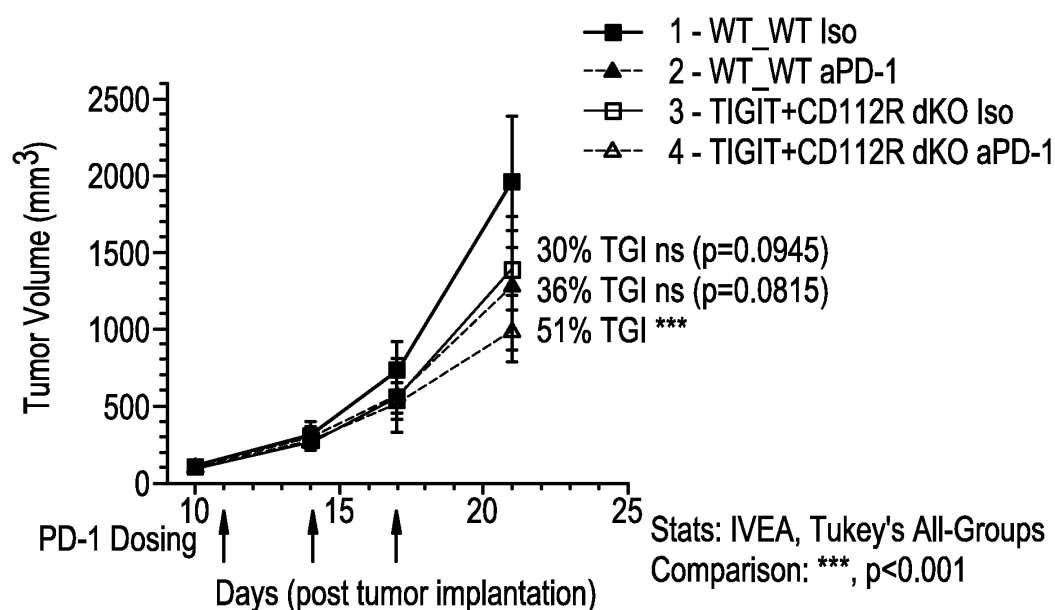


FIG. 24C
Xenograft

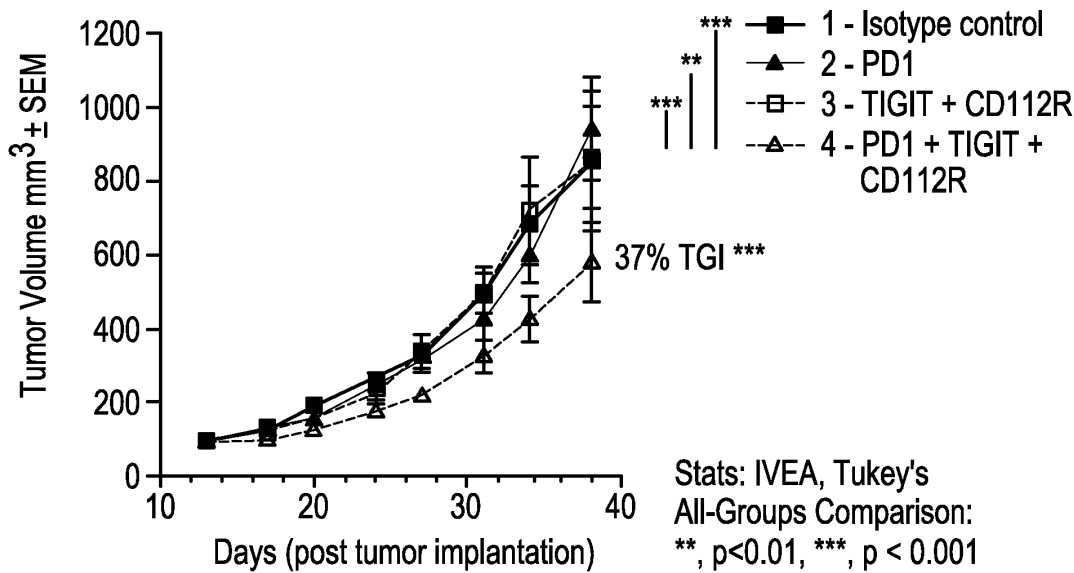


FIG. 25A
SEC %HMW -30°C

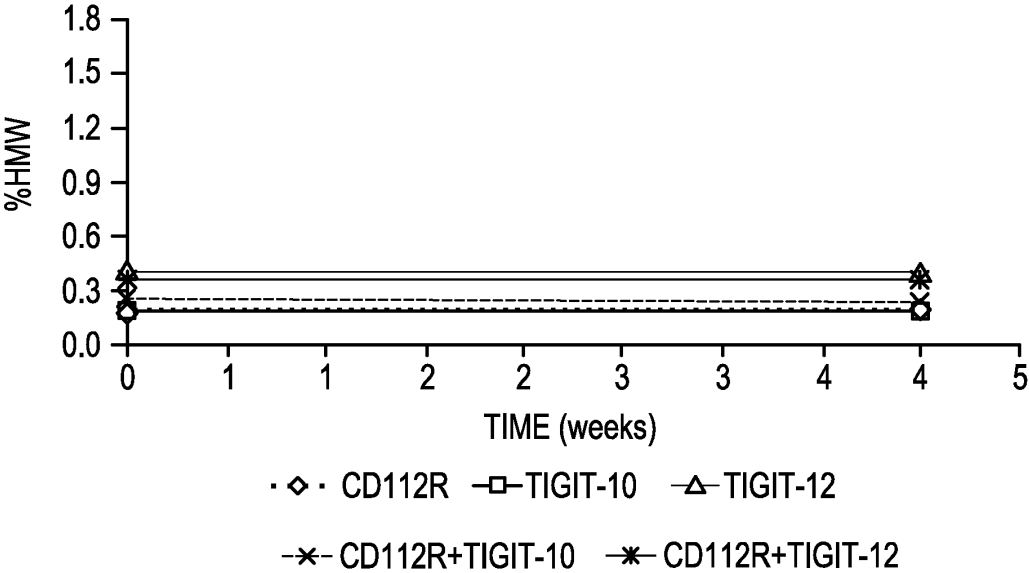


FIG. 25B
SEC %HMW 4°C

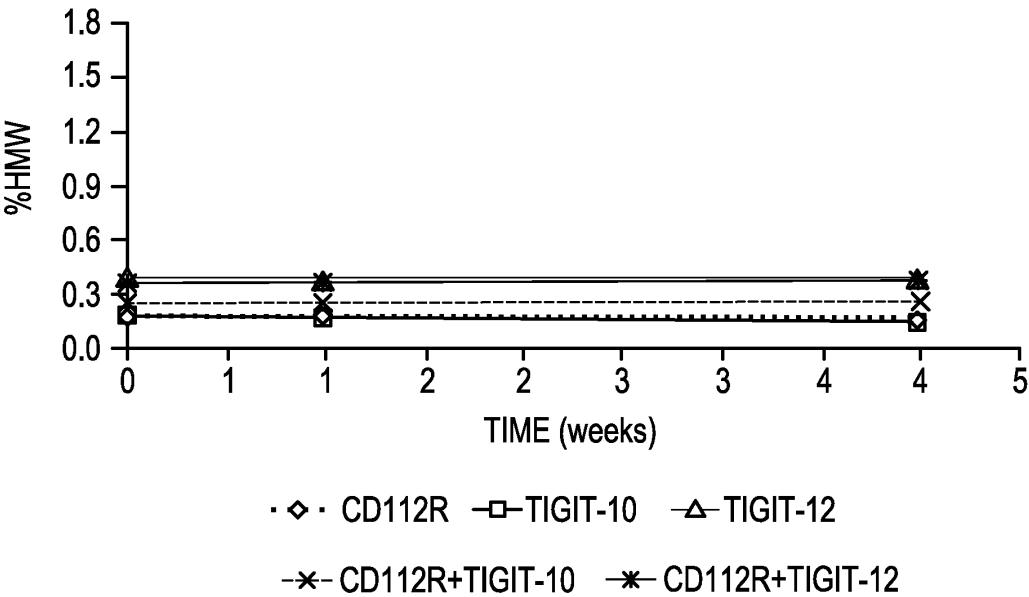


FIG. 25C
SEC %HMW 25°C

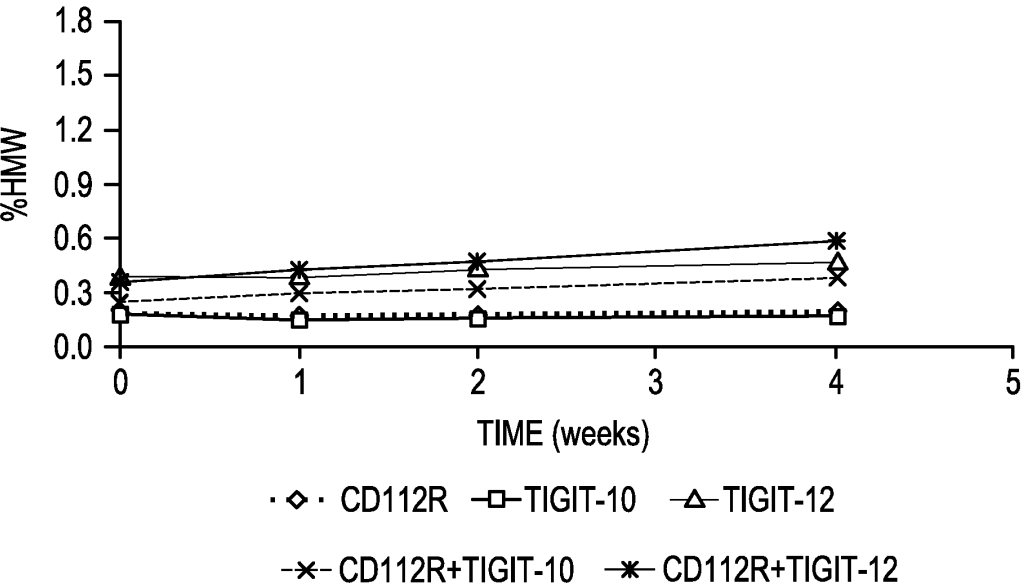


FIG. 25D
SEC %HMW 40°C

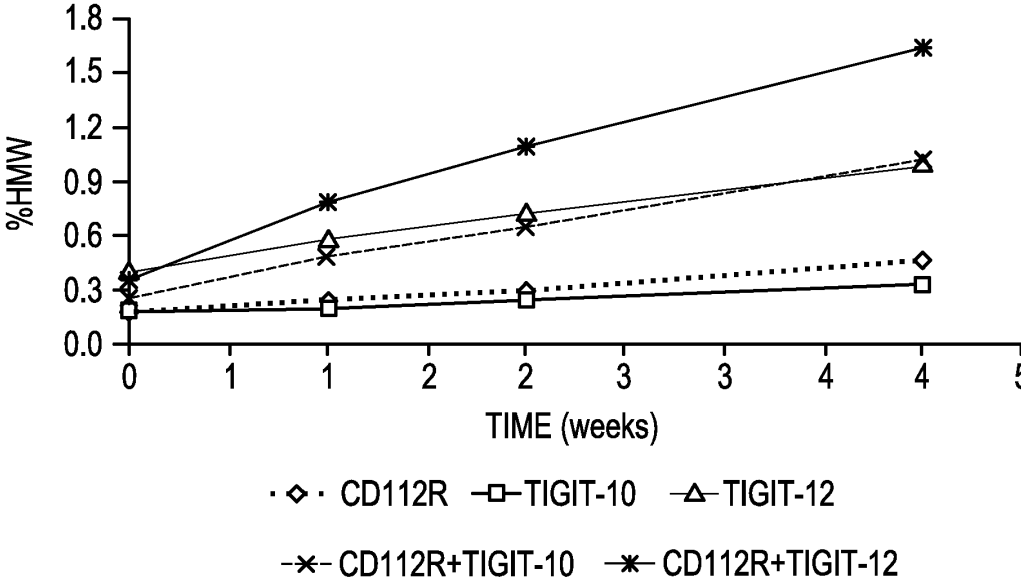
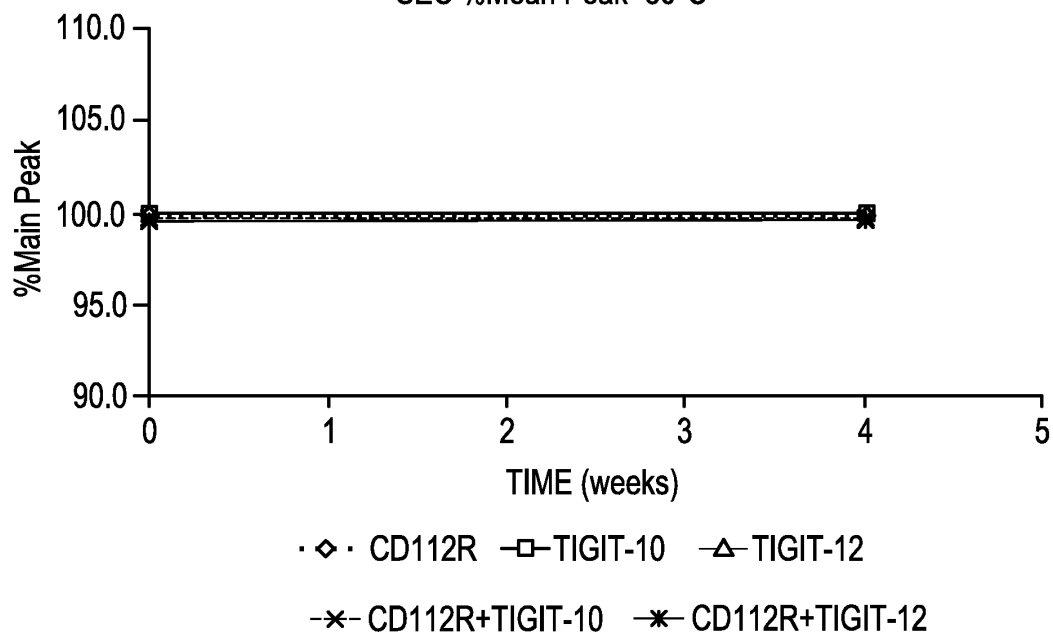


FIG. 25E

SEC %Mean Peak -30°C

**FIG. 25F**

SEC %Mean Peak 4°C

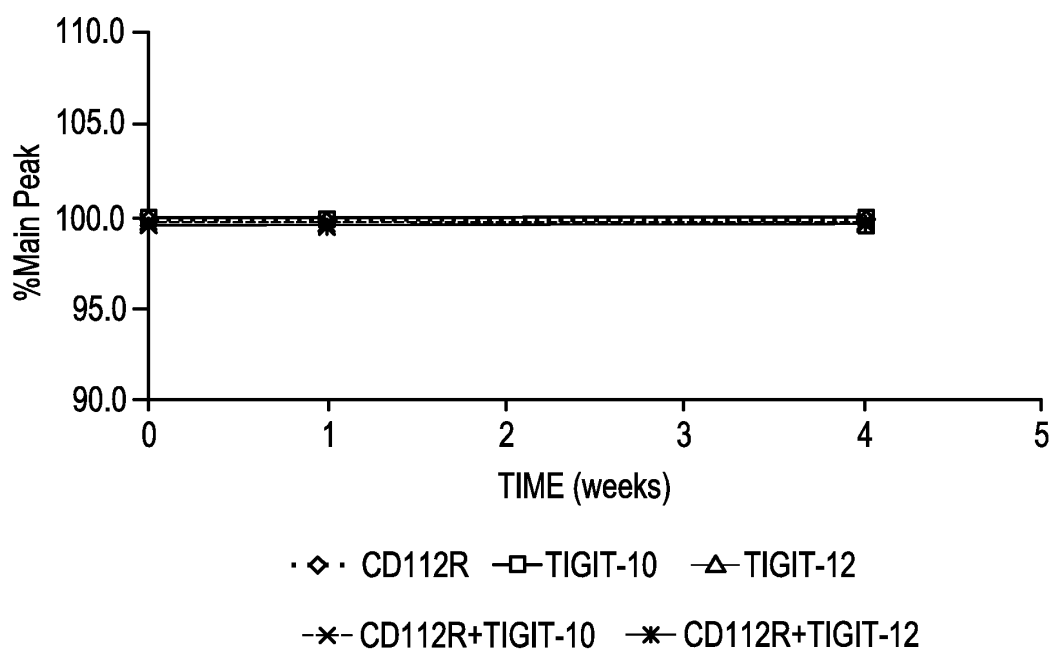


FIG. 25G

SEC %Mean Peak 25°C

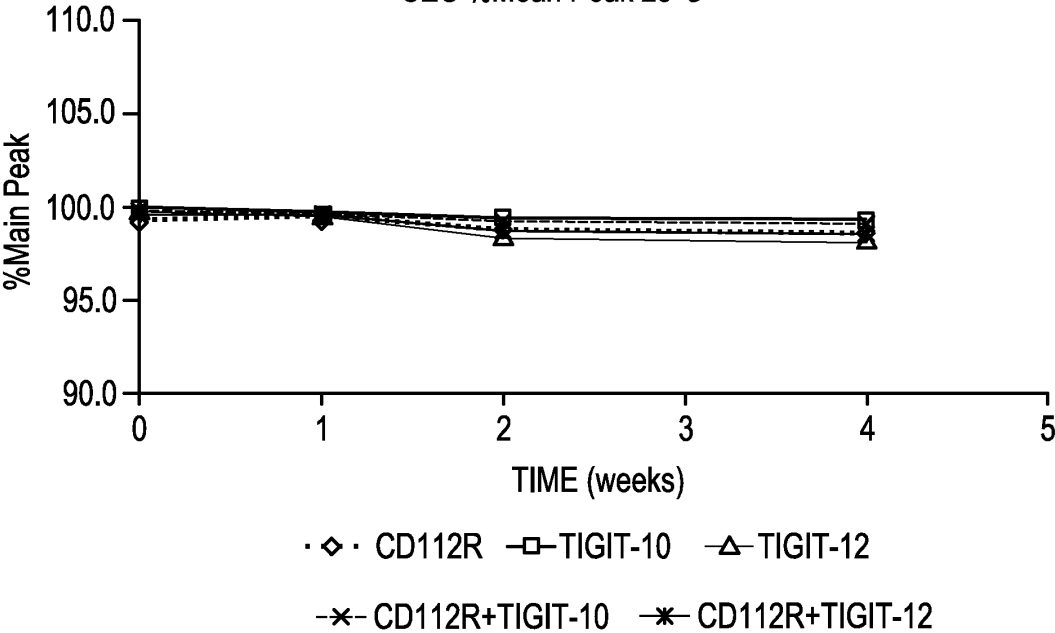


FIG. 25H

SEC %Mean Peak 40°C

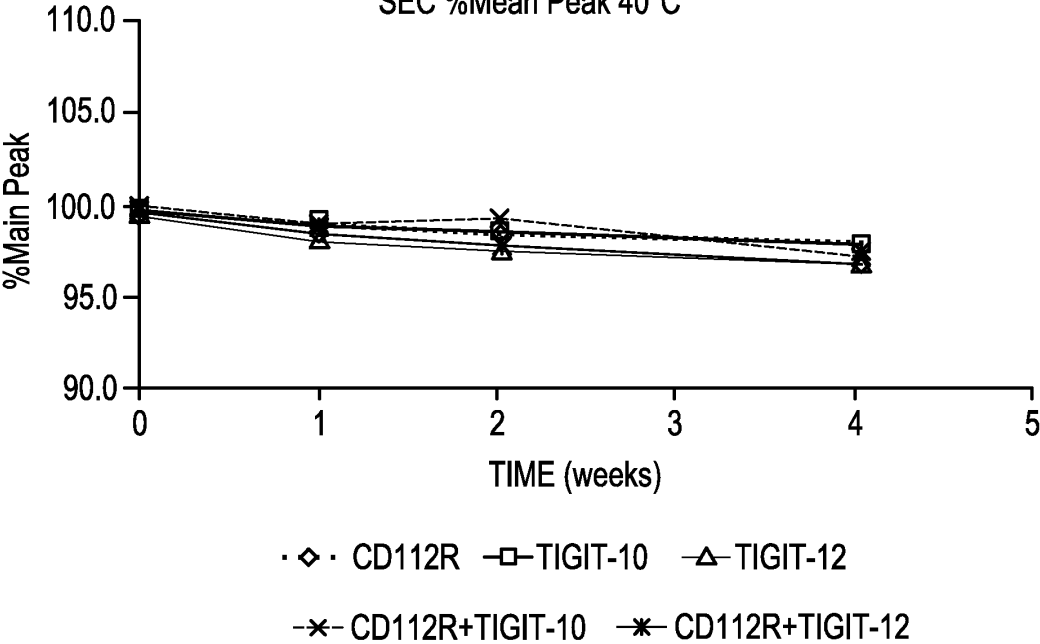


FIG. 26

TABLE 28

Candidate	Corrected Relative Area												
	LMW+MMW Peak												
	T0	1 wk			2 wk			4 wk					
		4C	25C	40C	25C	40C	FT 5x	(-30C)	4C	25C	40C		
CD112R - 140mg/ml	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.1	0.1	0.2	1.0		
TIGIT-10 - 140mg/ml	0.0	0.0	0.3	0.2	0.1	0.7	0.0	0.2	0.0	0.3	1.5		
TIGIT-12 - 140mg/ml	2.3	2.2	3.0	2.9	3.2	3.1	2.2	2.1	2.5	3.9	3.6		
CD112R - 70mg/ml	0.0	0.0	0.1	0.3	0.3	0.1	0.0	0.1	0.0	0.2	0.9		
TIGIT-10 - 70mg/ml	0.0	0.0	0.5	0.2	0.1	0.9	0.1	0.3	0.1	0.3	1.4		
TIGIT-12 - 70mg/ml	2.1	2.3	2.7	2.9	3.1	3.0	2.2	2.1	2.2	3.5	3.5		
CD112R+TIGIT-10 1to1	0.0	0.1	0.3	0.5	0.2	0.8	0.1	0.1	0.1	0.1	1.2		
CD112R+TIGIT-12 1to1	0.0	1.1	1.4	1.4	1.2	1.7	1.1	1.1	1.2	1.5	2.1		

FIG. 27

