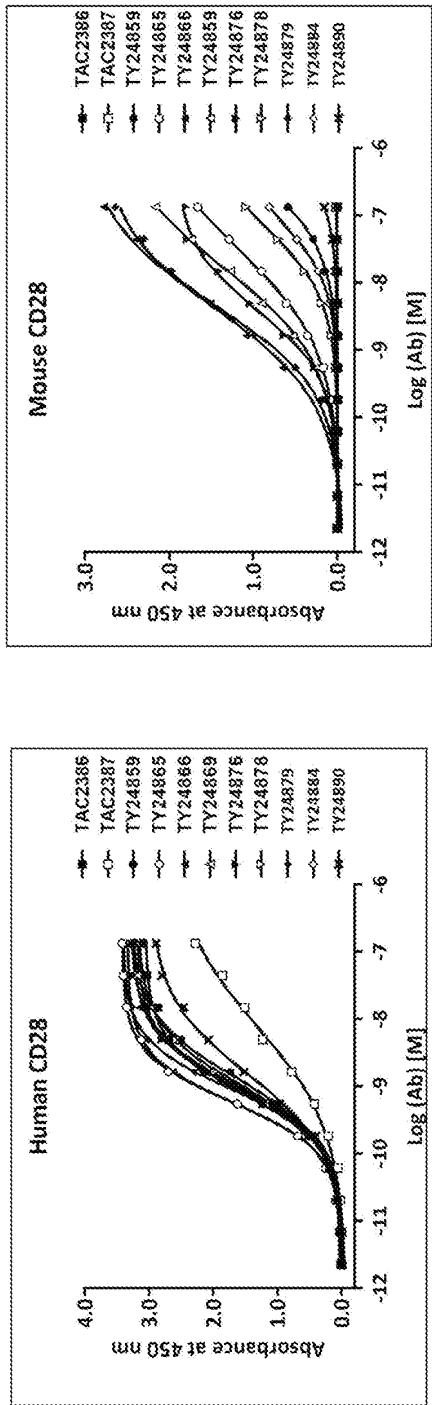
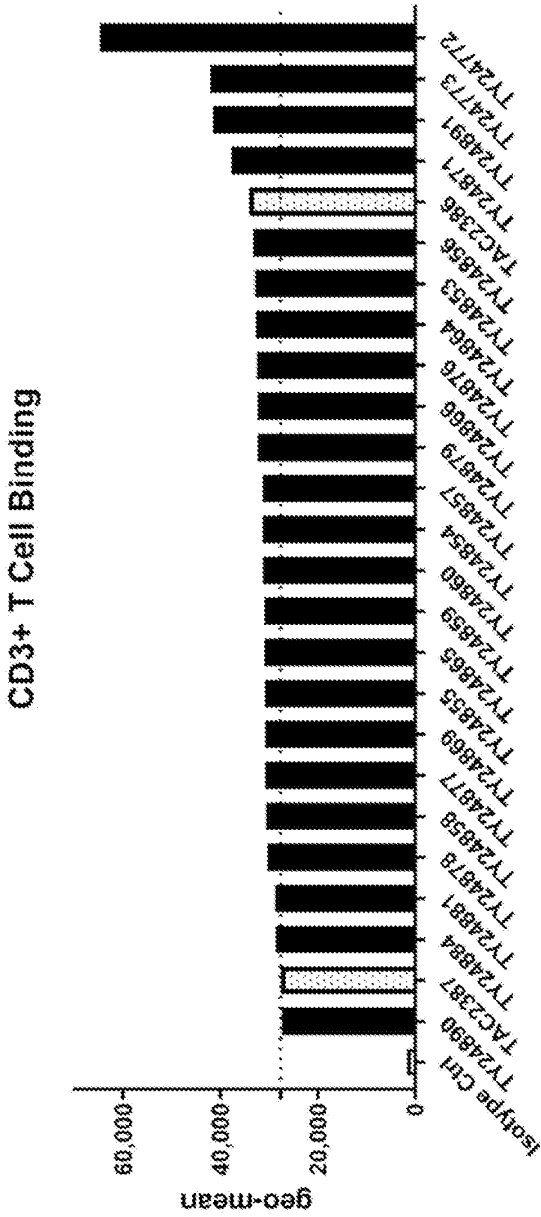


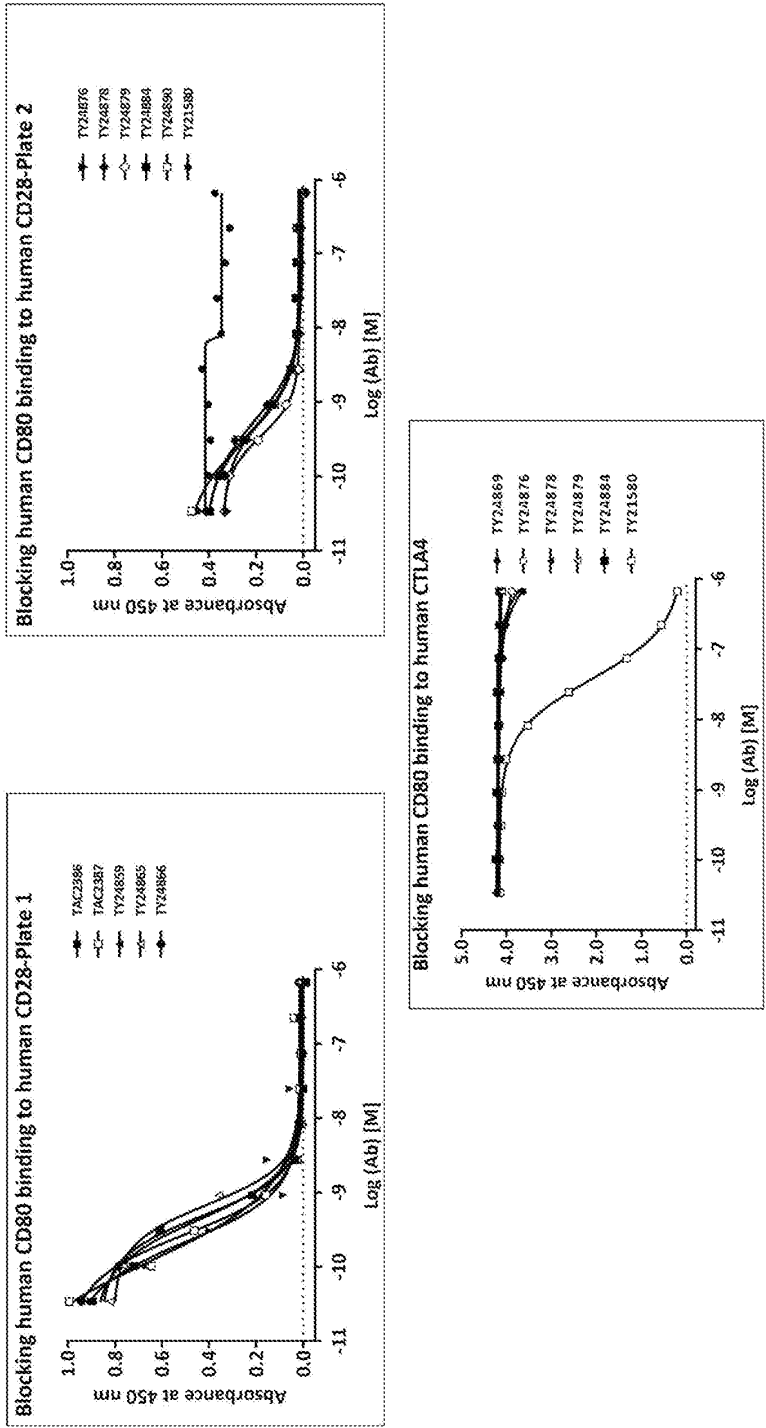
[Fig. 1]



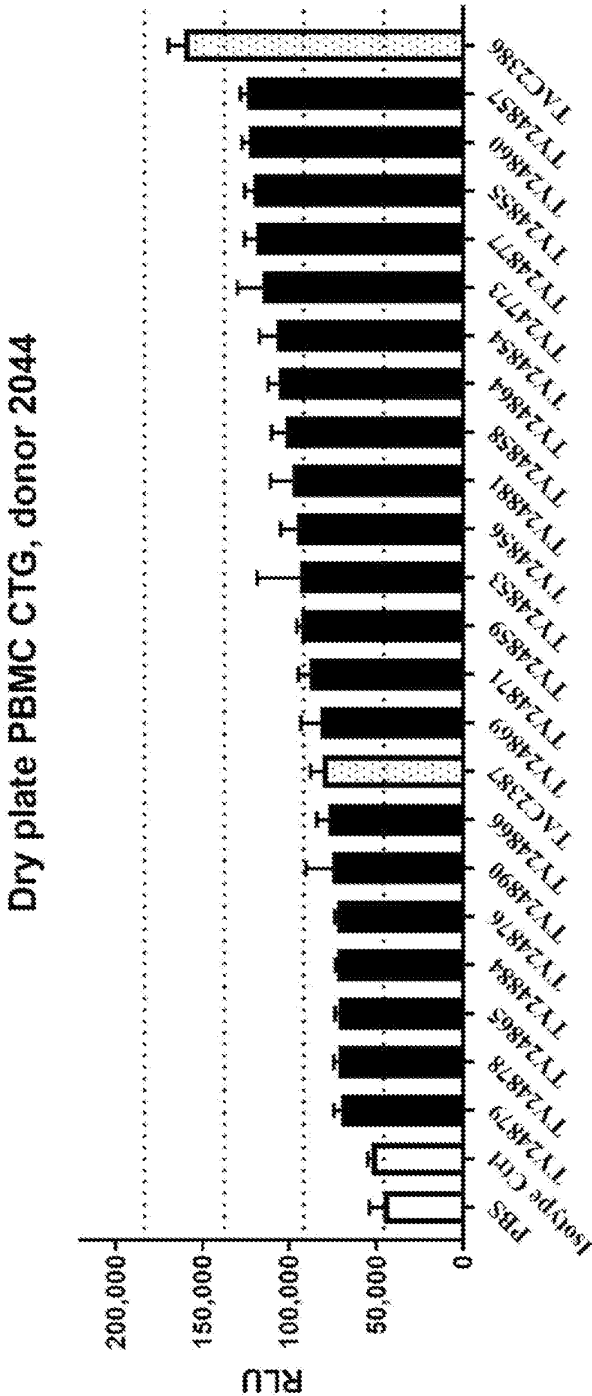
[Fig. 2]



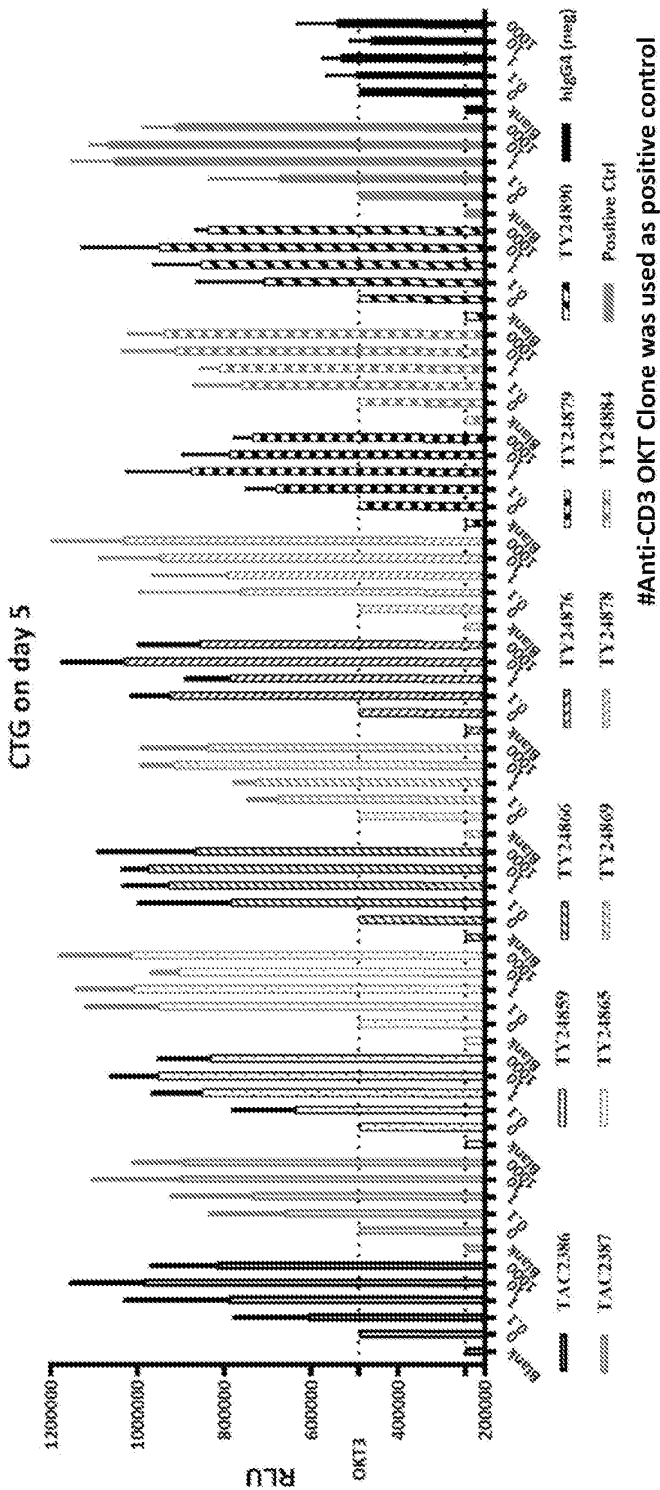
[Fig. 3]



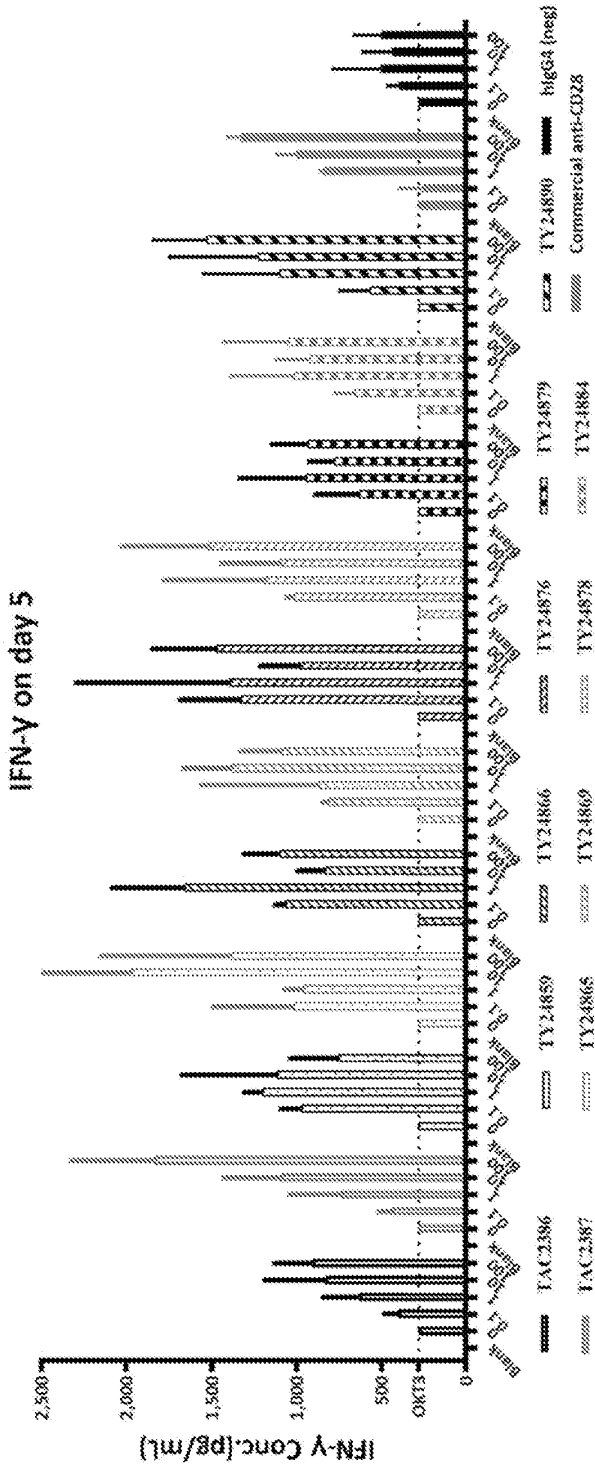
[Fig. 4A]



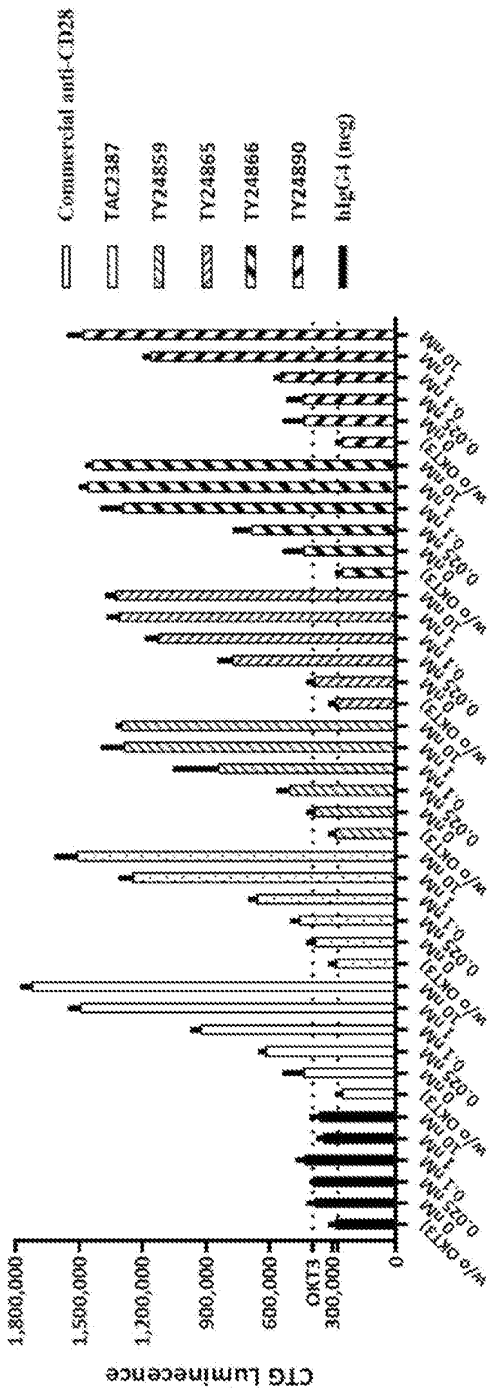
[Fig. 4B]



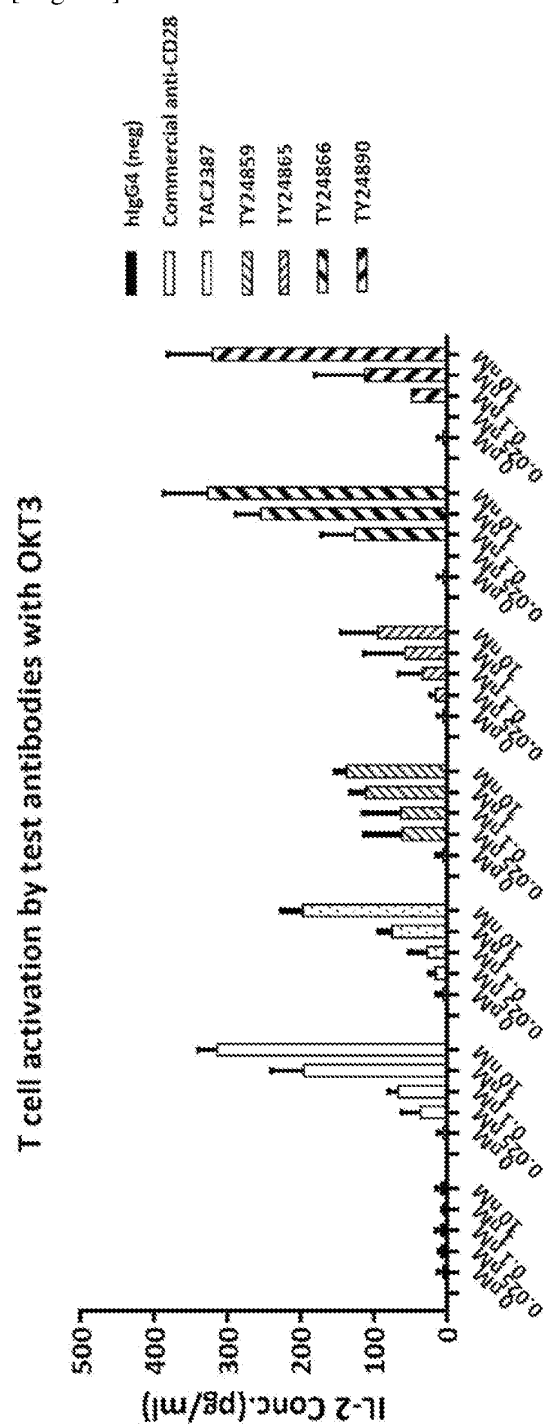
[Fig. 4C]



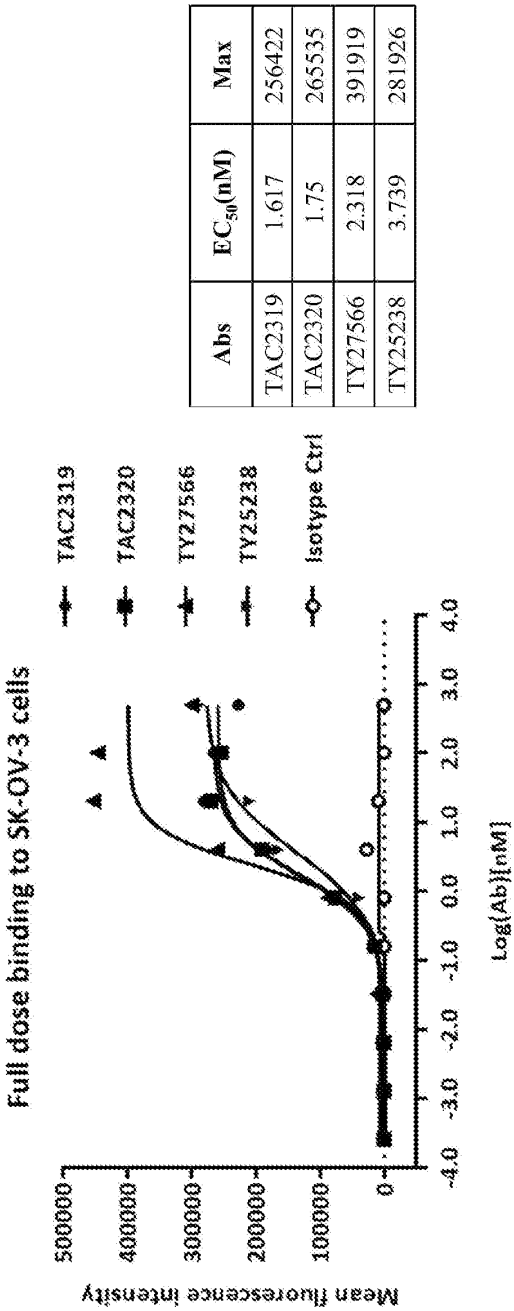
[Fig. 5A]



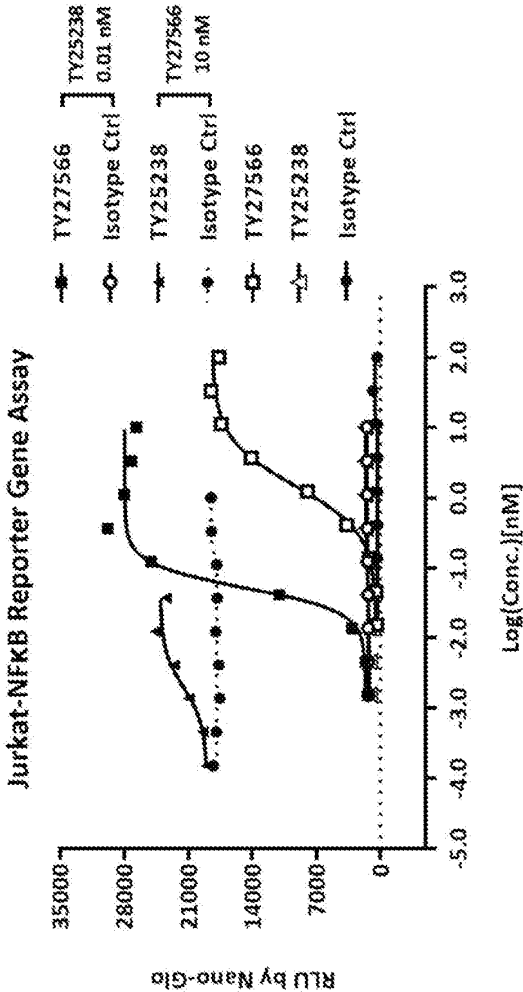
[Fig. 5B]



[Fig. 6]

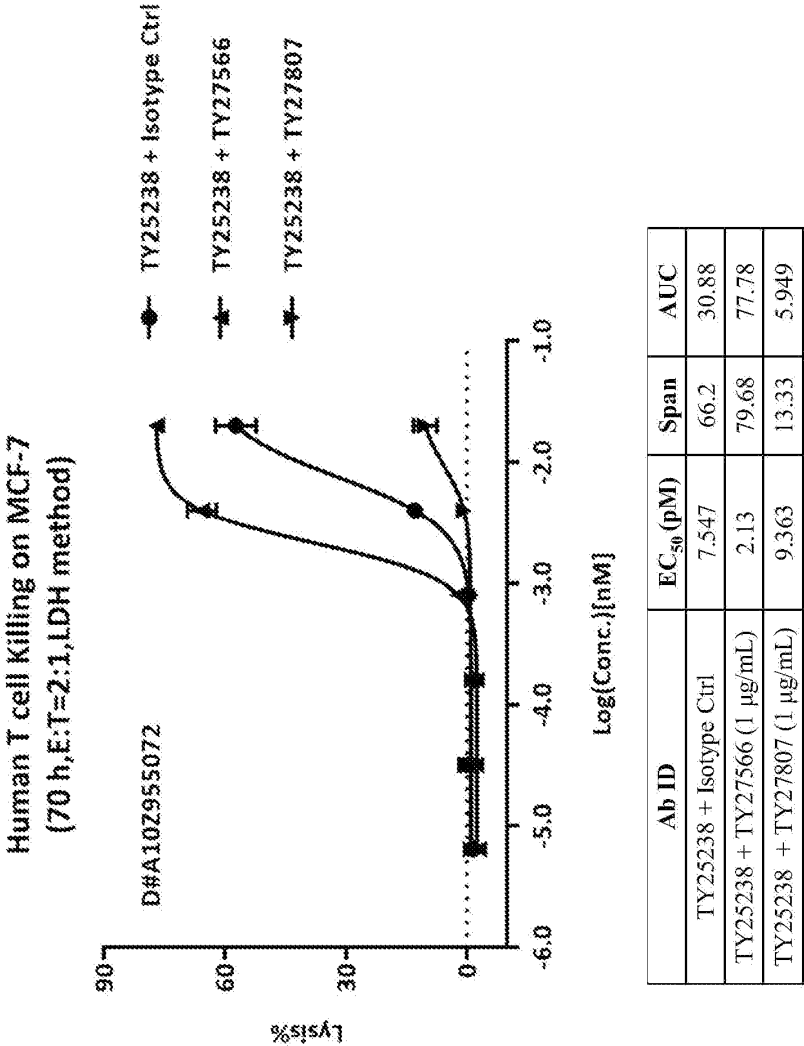


[Fig. 7]

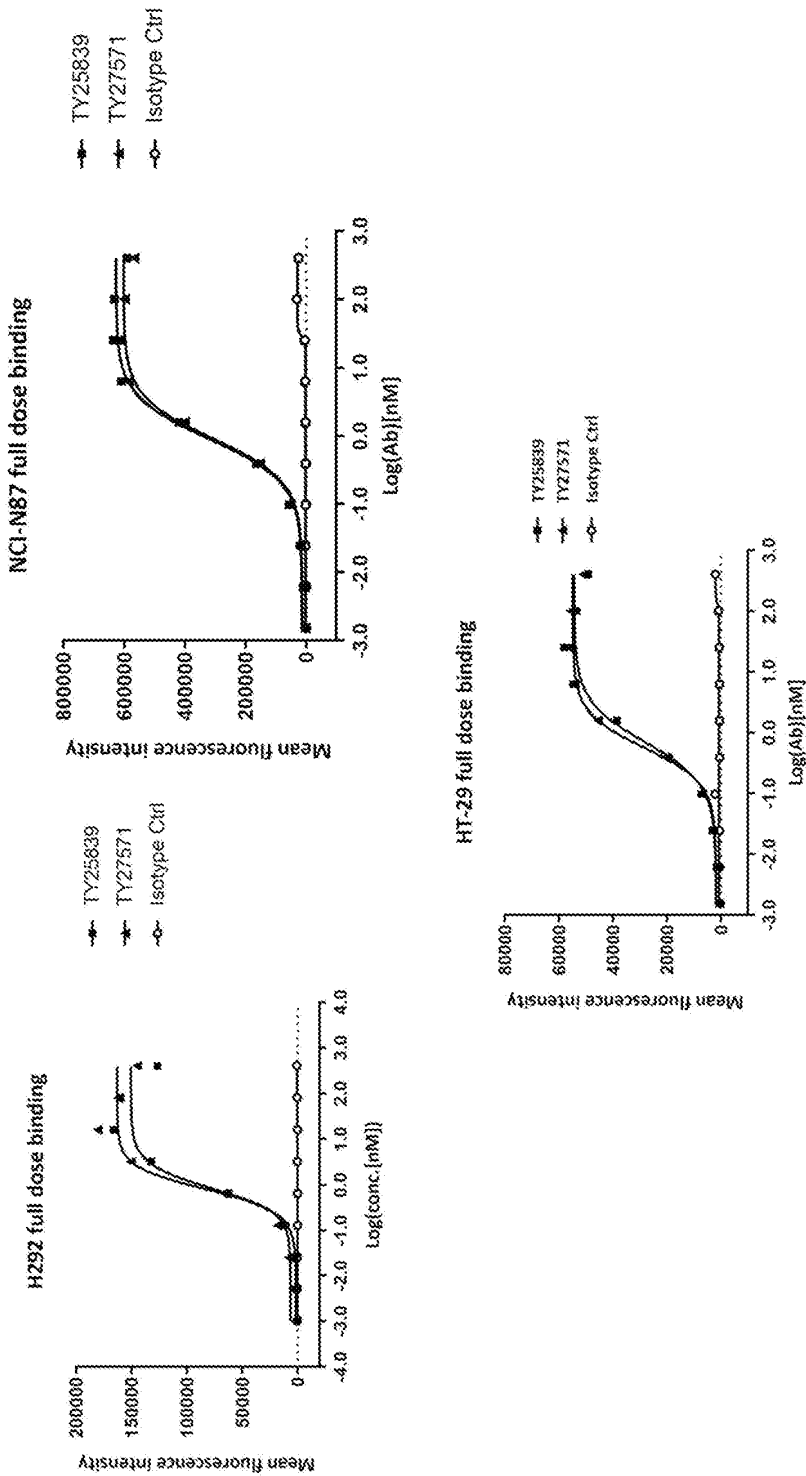


Ab ID	EC ₅₀ (nM)	Max RLU
TY27566	1.501	18864
TY25238	0.0827	1747
Isotype Ctrl	NA	869
TY27566+0.01 nM TY25238	0.0519	29940
Isotype Ctrl+0.01 nM TY25238	NA	1549
TY25238+10 nM TY27566	0.0019	24879
Isotype Ctrl+10 nM TY27566	NA	18657

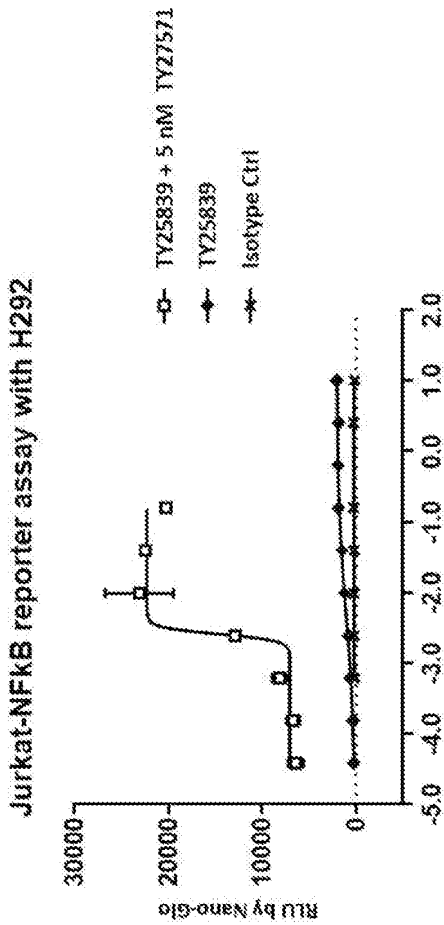
[Fig. 8]



[Fig. 9]



[Fig. 10A]



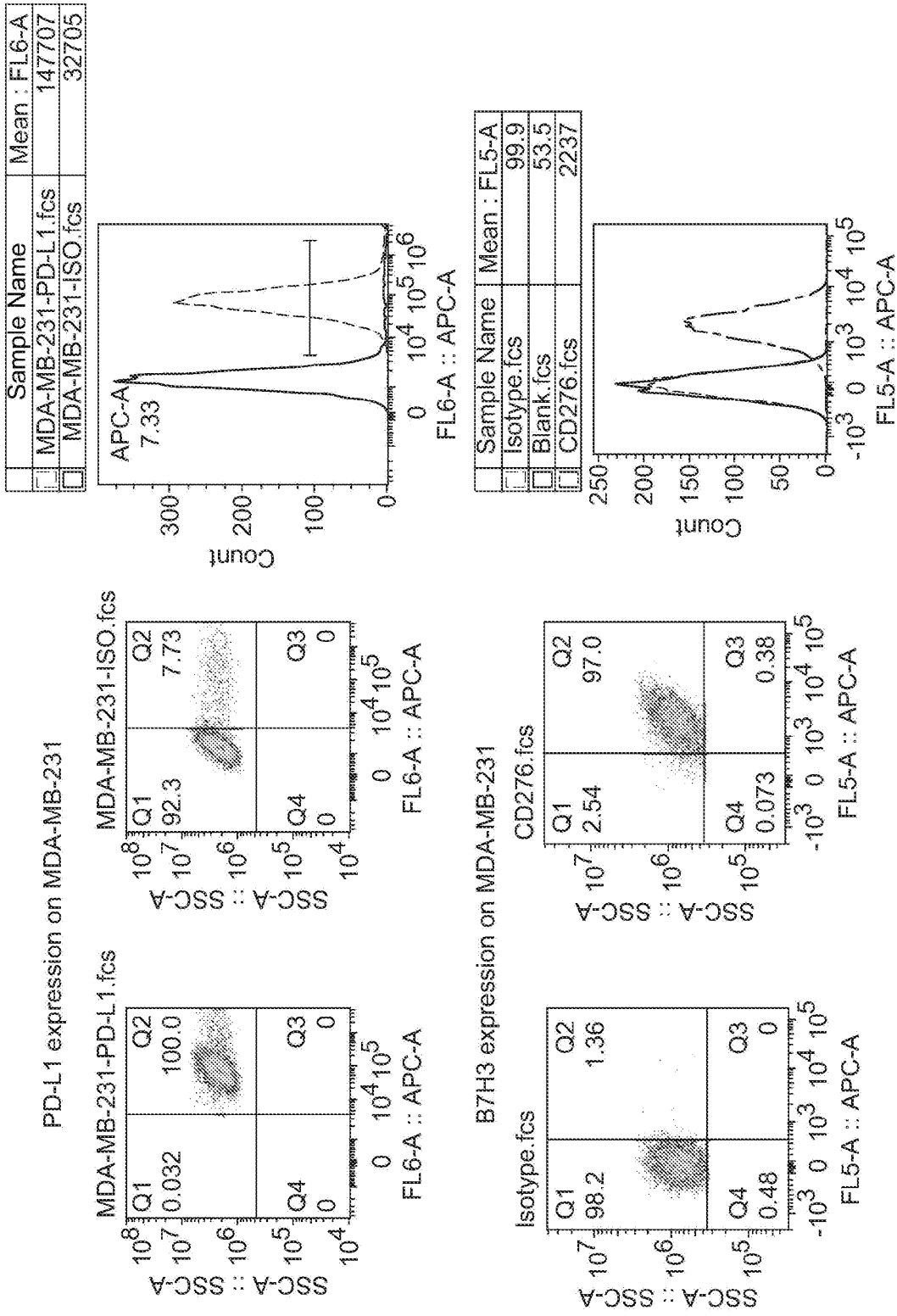
Rule 26,
26.06.2023

[Fig. 10B]

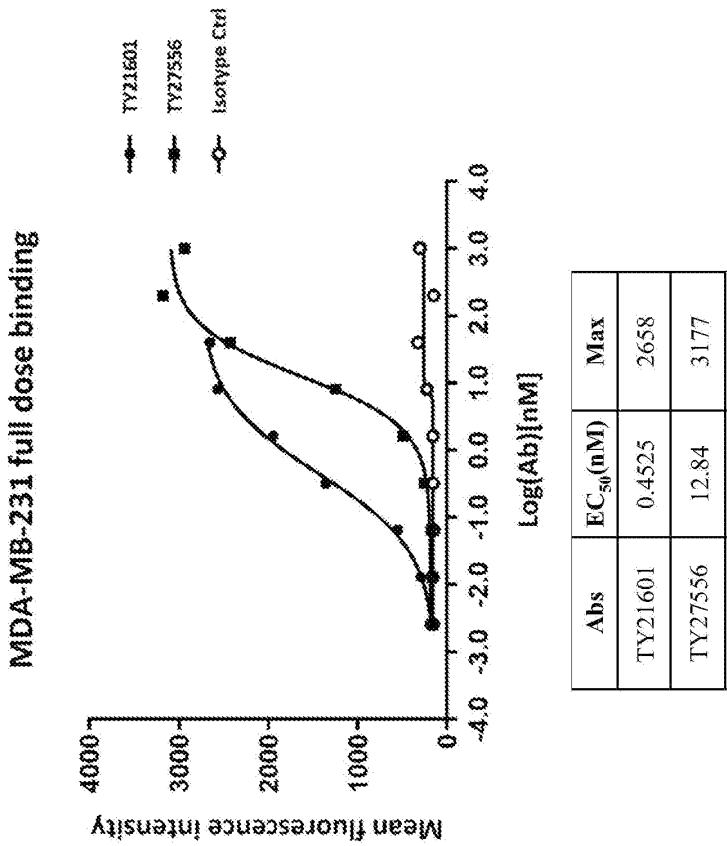
Log{Ab}[nM]		TAs	EC50 (nM)	Span
TROP2xCD3	TROP2xCD28			
TY25839	5 nM TY27571 CD28		0.00257	15186
TY25839	/		0.00585	1913

Jurkat-NFkB reporter assay with H292

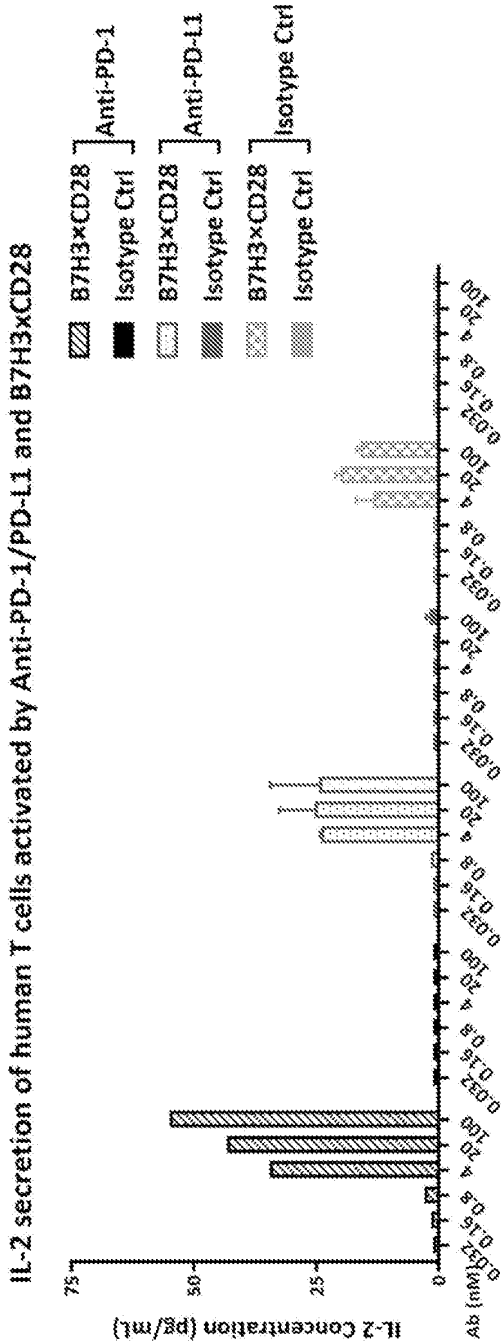
[Fig. 11]



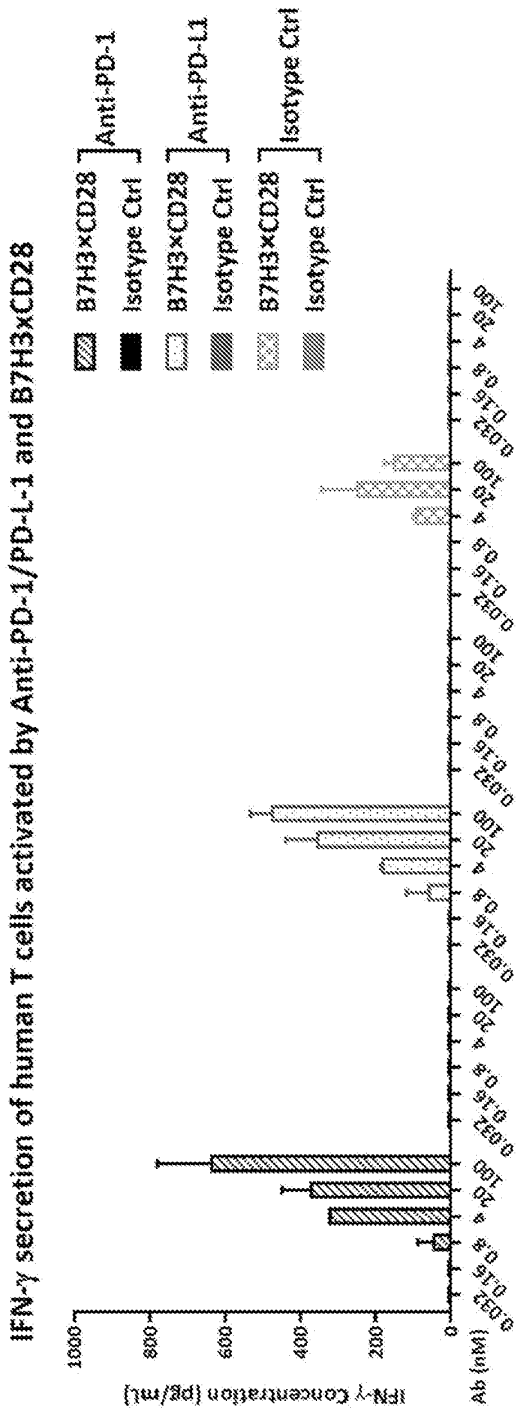
[Fig. 12]



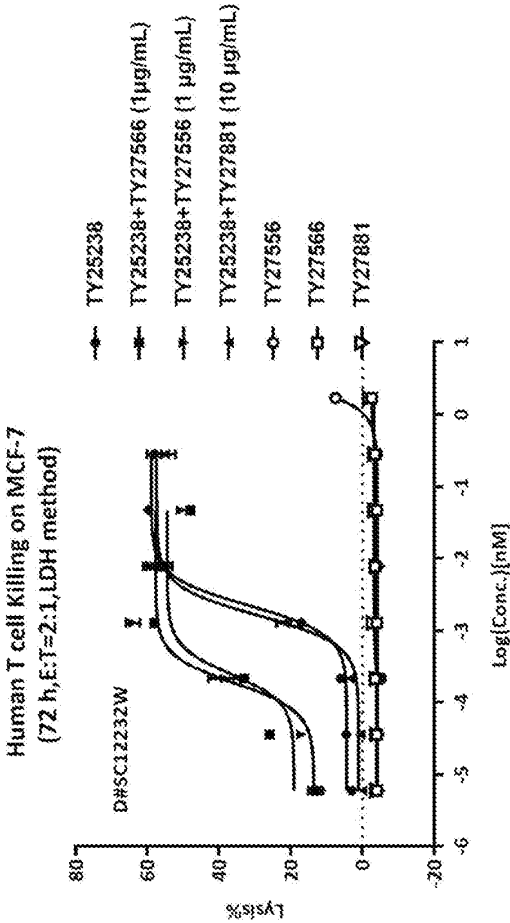
[Fig. 13A]



[Fig. 13B]

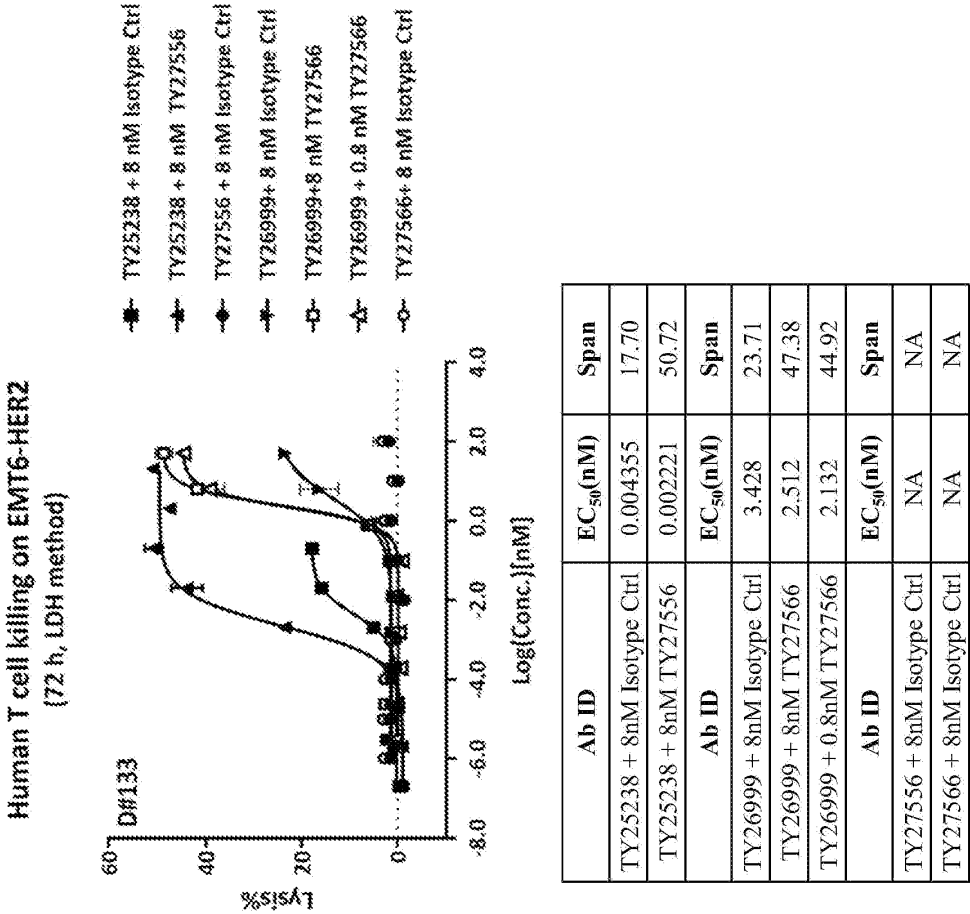


[Fig. 14]

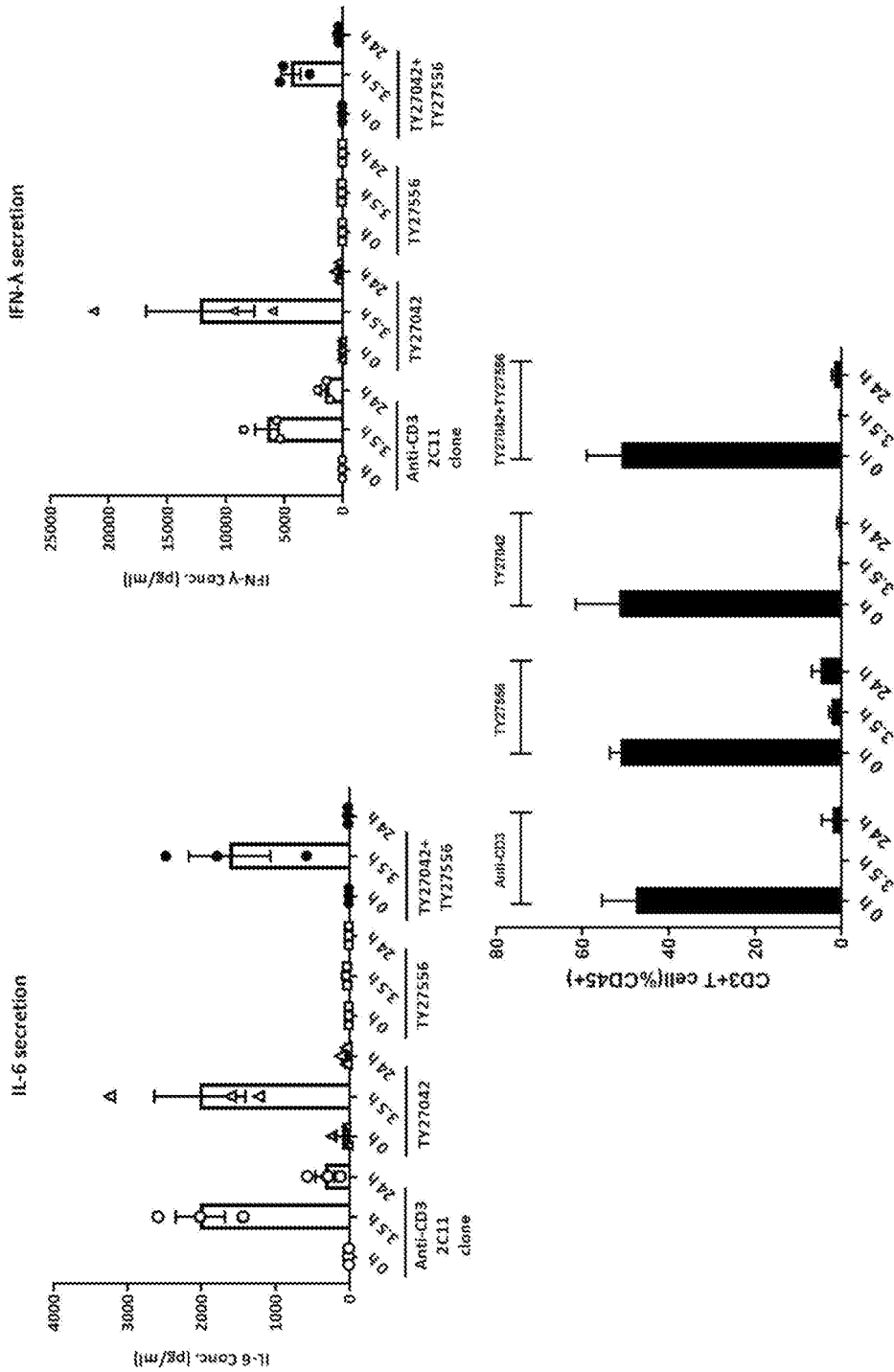


MCF-7 (72h)	EC ₅₀ (pM)	Span
TY25238	2.22	54.47
TY25238+ 1 µg/mL TY27566	0.24	34.71
TY25238+ 1 µg/mL TY27556	0.20	43.57
TY25238+ 10 µg/mL TY27881	1.68	56.82

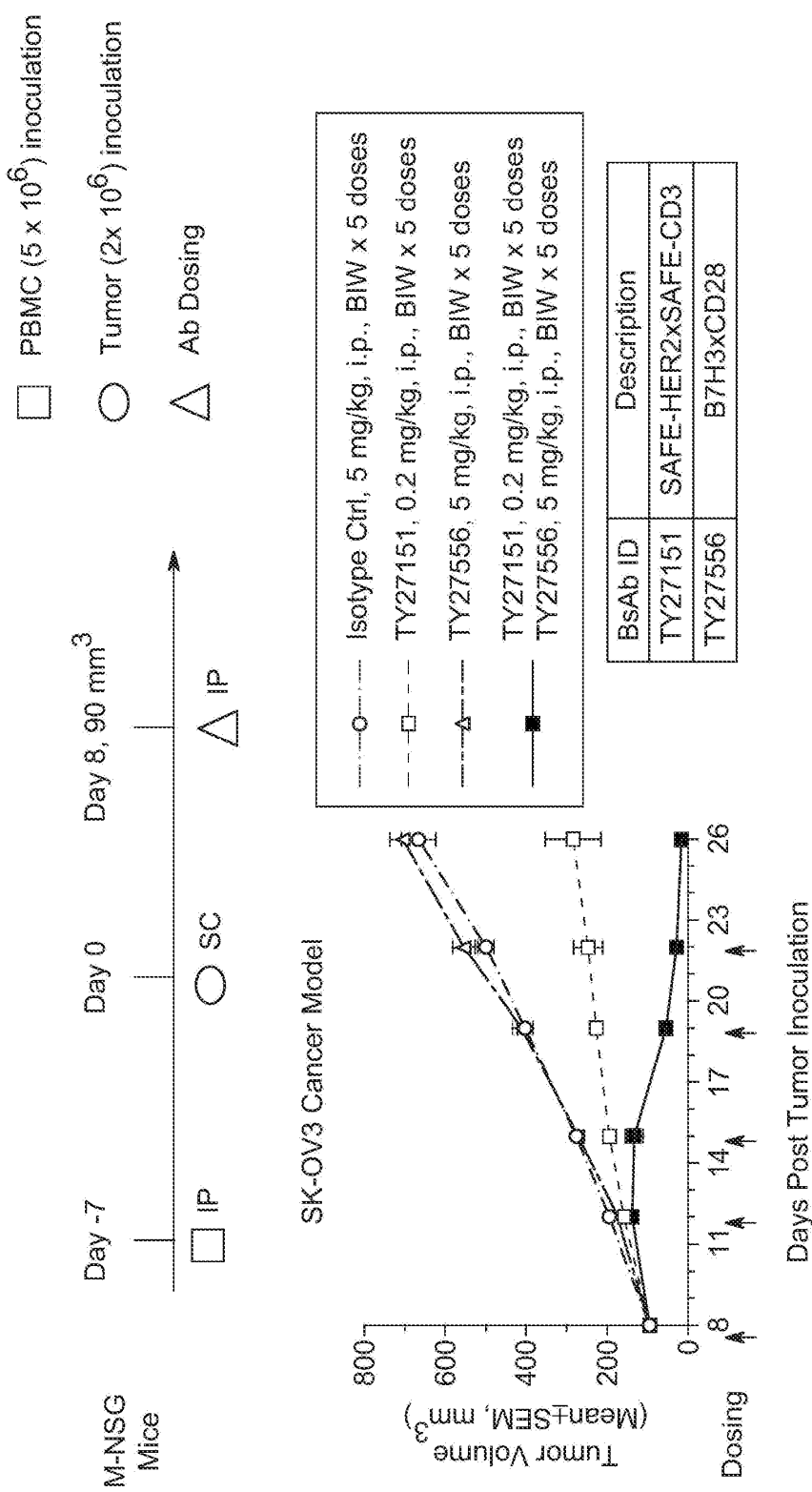
[Fig. 15]



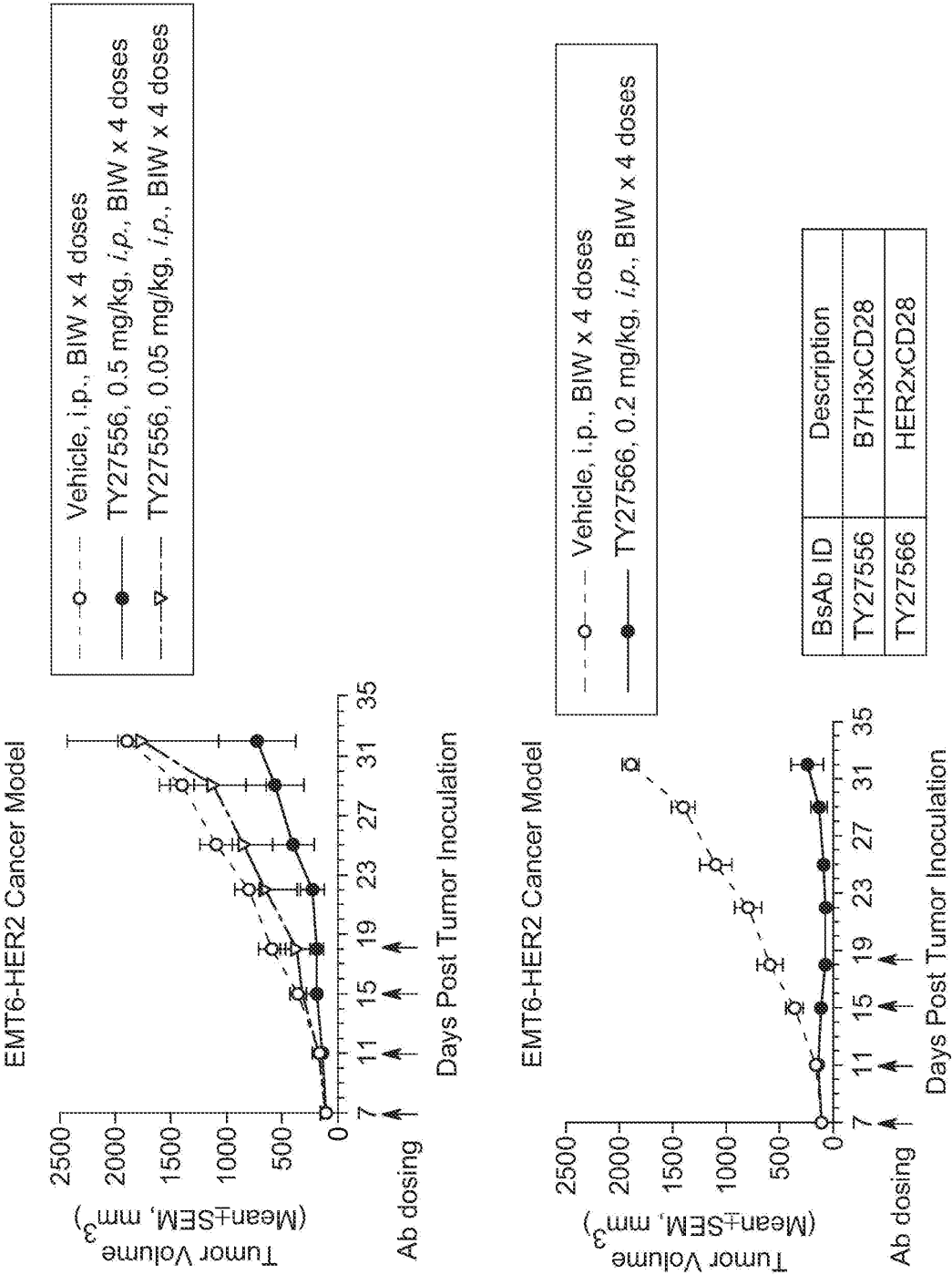
[Fig. 16]



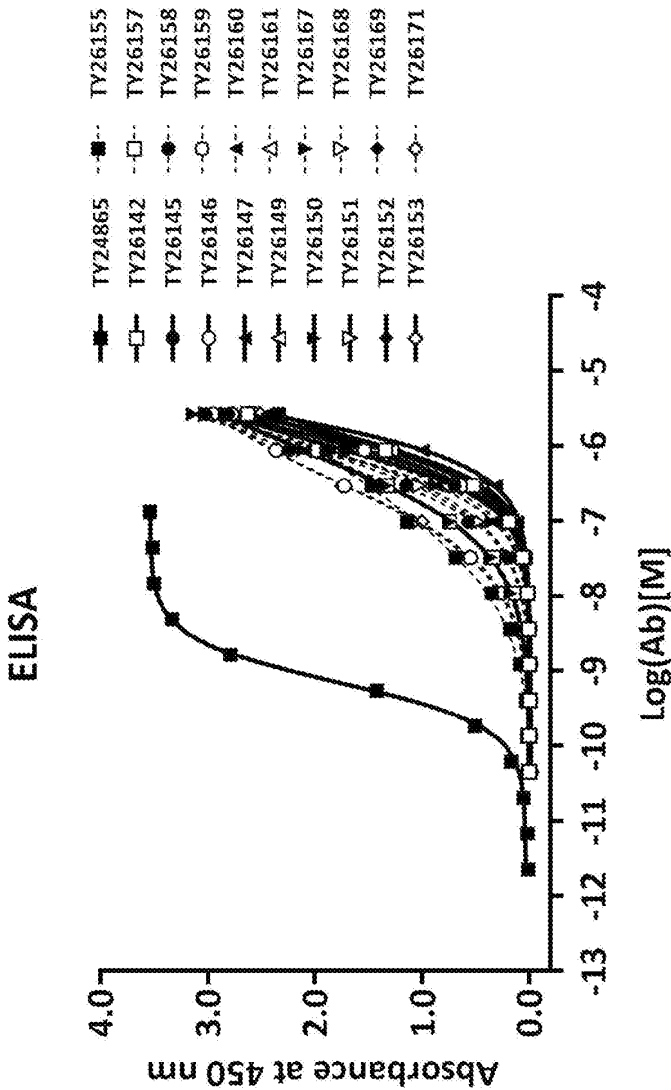
[Fig. 17]



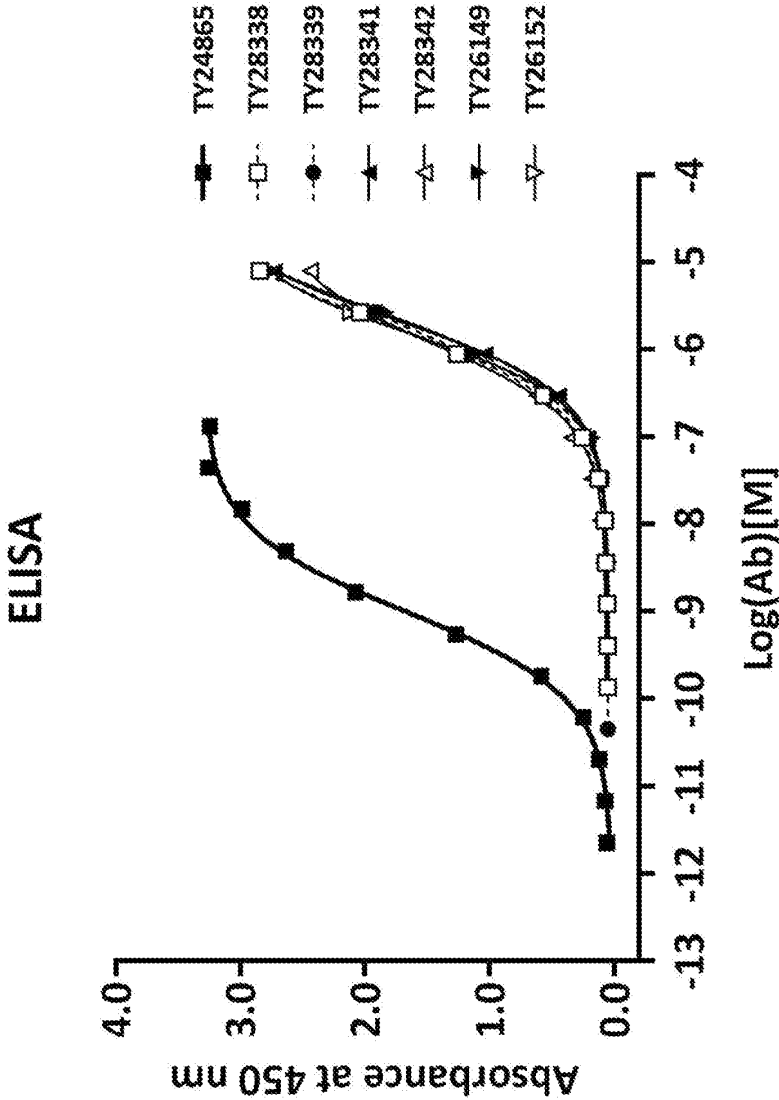
[Fig. 18]



[Fig. 19]



[Fig. 20]



[Fig. 21]

Sequence number	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
sp P10747 CD28_HUMAN	N	K	I	L	V	K	Q	S	P	M	L	V	A	Y	D	N	A	V	N	L	S	C	K	Y	S
sp P31041 CD28_MOUSE	N	K	I	L	V	K	Q	S	P	L	L	V	V	D	S	N	E	V	S	L	S	C	R	Y	S
TY24865	N	K	I	L	V	K	Q	S	P	M	L	V	A	Y	D	N	A	V	N	L	S	C	K	Y	S

Sequence number	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
sp P10747 CD28_HUMAN	Y	N	L	F	S	R	E	F	R	A	S	L	H	K	G	L	D	S	A	V	E	V	C	V	V
sp P31041 CD28_MOUSE	Y	N	L	L	A	K	E	F	R	A	S	L	Y	K	G	V	N	S	D	V	E	V	C	V	G
TY24865	Y	N	L	F	S	R	E	F	R	A	S	L	H	K	G	L	D	S	A	V	E	V	C	V	V

Sequence number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93
sp P10747 CD28_HUMAN	Y	G	N	Y	S	Q	Q	L	Q	V	Y	S	K	I	G	F	N	C	D	G	K	L	G	N	E
sp P31041 CD28_MOUSE	N	G	N	F	I	Y	Q	P	Q	F	R	S	N	A	E	F	N	C	D	G	D	F	D	N	E
TY24865	Y	G	N	Y	S	Q	Q	L	Q	V	Y	S	K	I	G	F	N	C	D	G	K	L	G	N	E

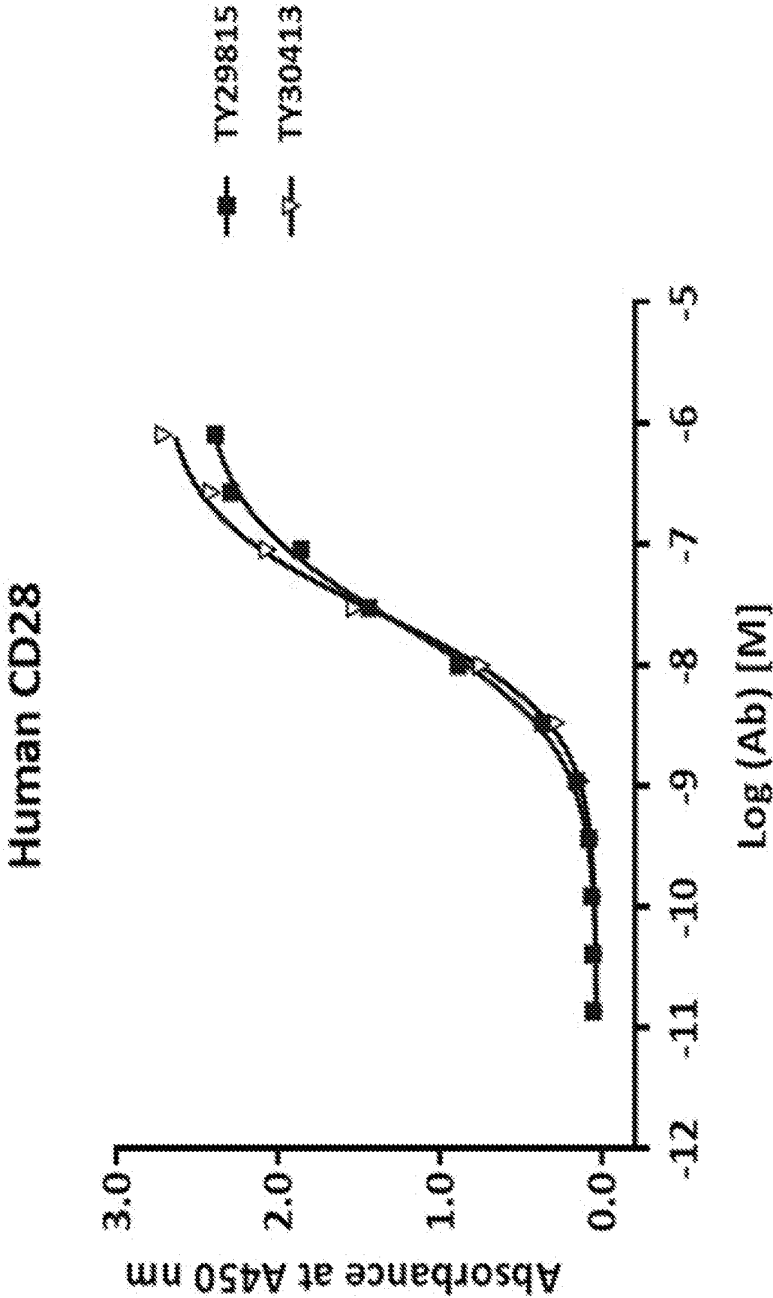
Sequence number	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
sp P10747 CD28_HUMAN	S	V	T	F	Y	L	Q	N	L	Y	V	N	Q	T	D	I	Y	F	C	K	I	E	V	M	Y
sp P31041 CD28_MOUSE	I	V	T	F	R	L	W	N	L	H	V	N	H	T	D	I	Y	F	C	K	I	E	F	M	Y
TY24865	S	V	T	F	Y	L	Q	N	L	Y	V	N	Q	T	D	I	Y	F	C	K	I	E	V	M	Y

Sequence number	119	120	121	122	123	124	125	126
sp P10747 CD28_HUMAN	P	P	P	Y	L	D	N	E
sp P31041 CD28_MOUSE	P	P	P	Y	L	D	N	E
TY24865	P	P	P	Y	L	D	N	E

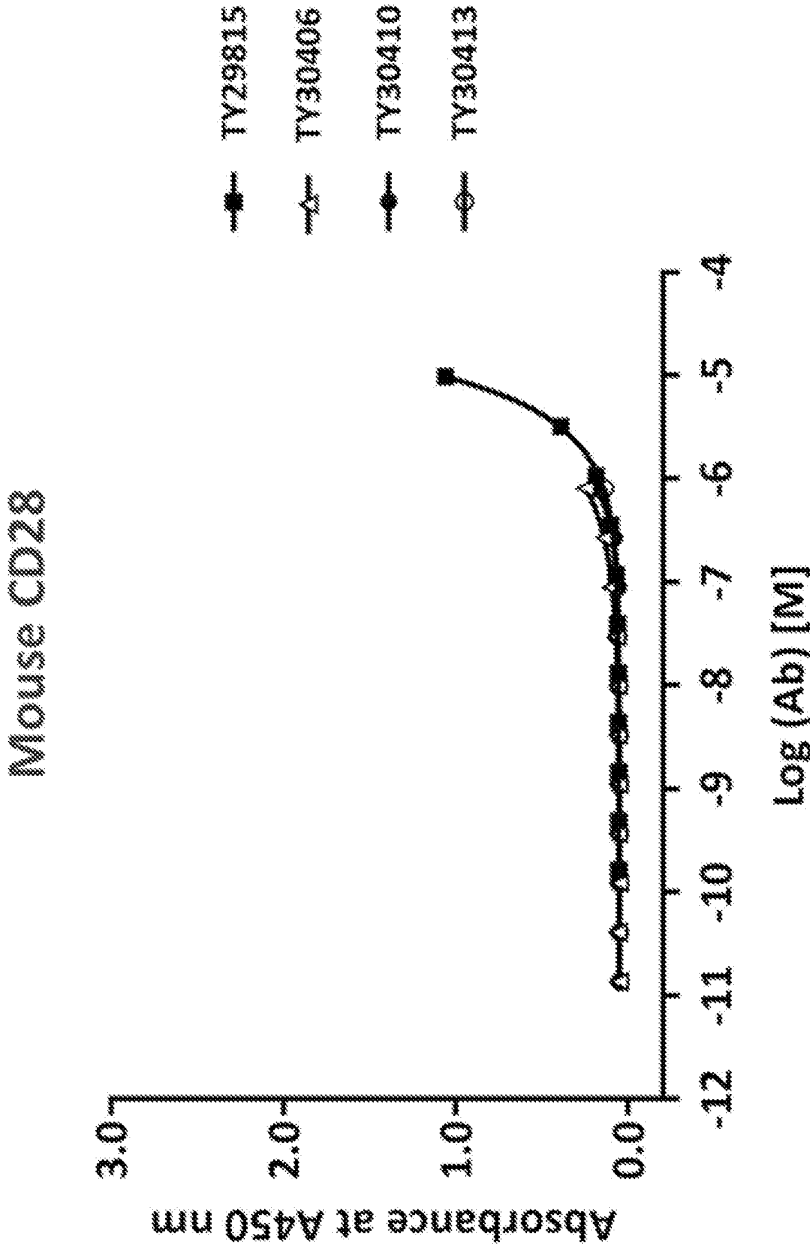
Binding Sites

Different Residues from human and mouse CD28

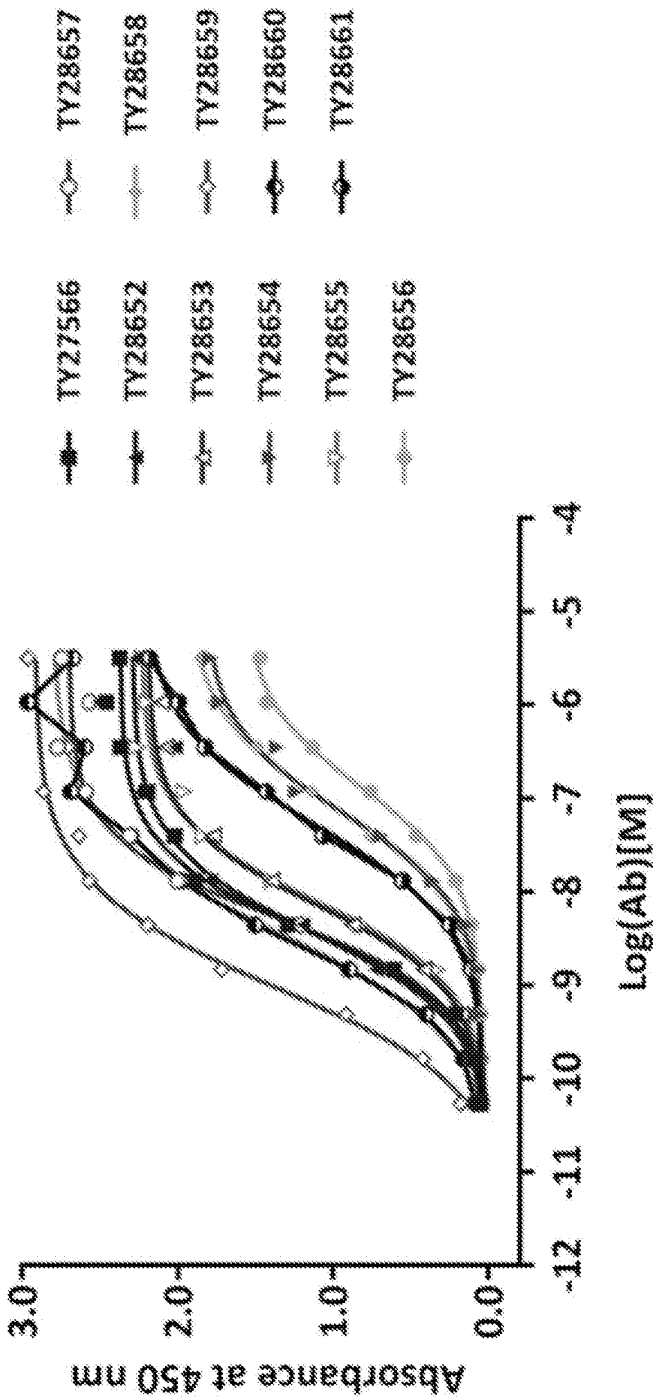
[Fig. 22A]



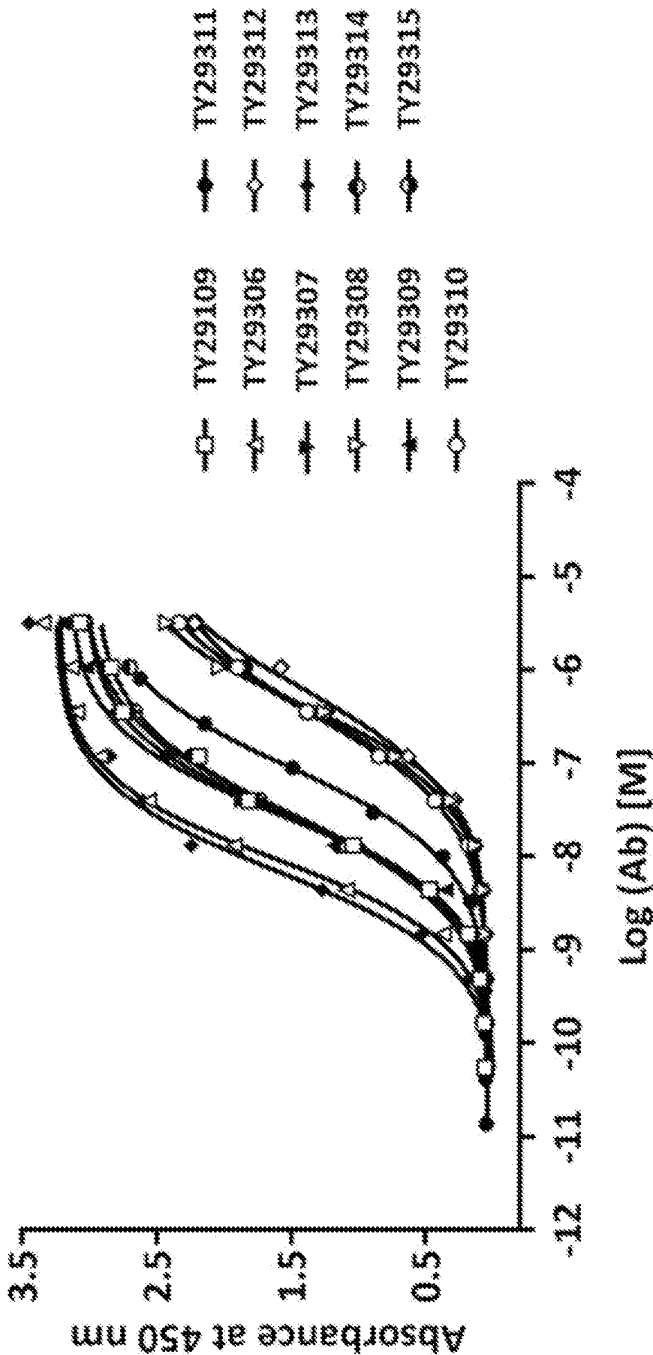
[Fig. 22B]



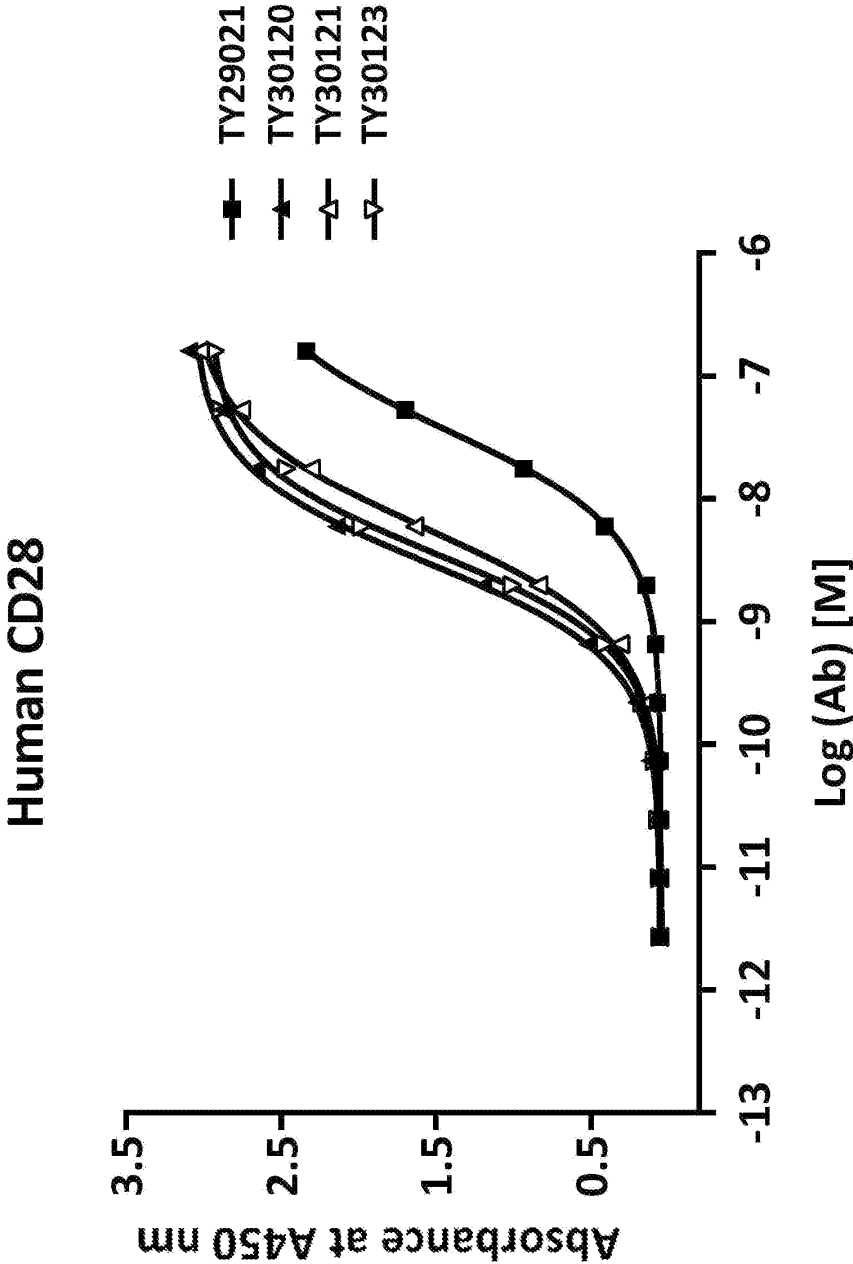
[Fig. 23A]



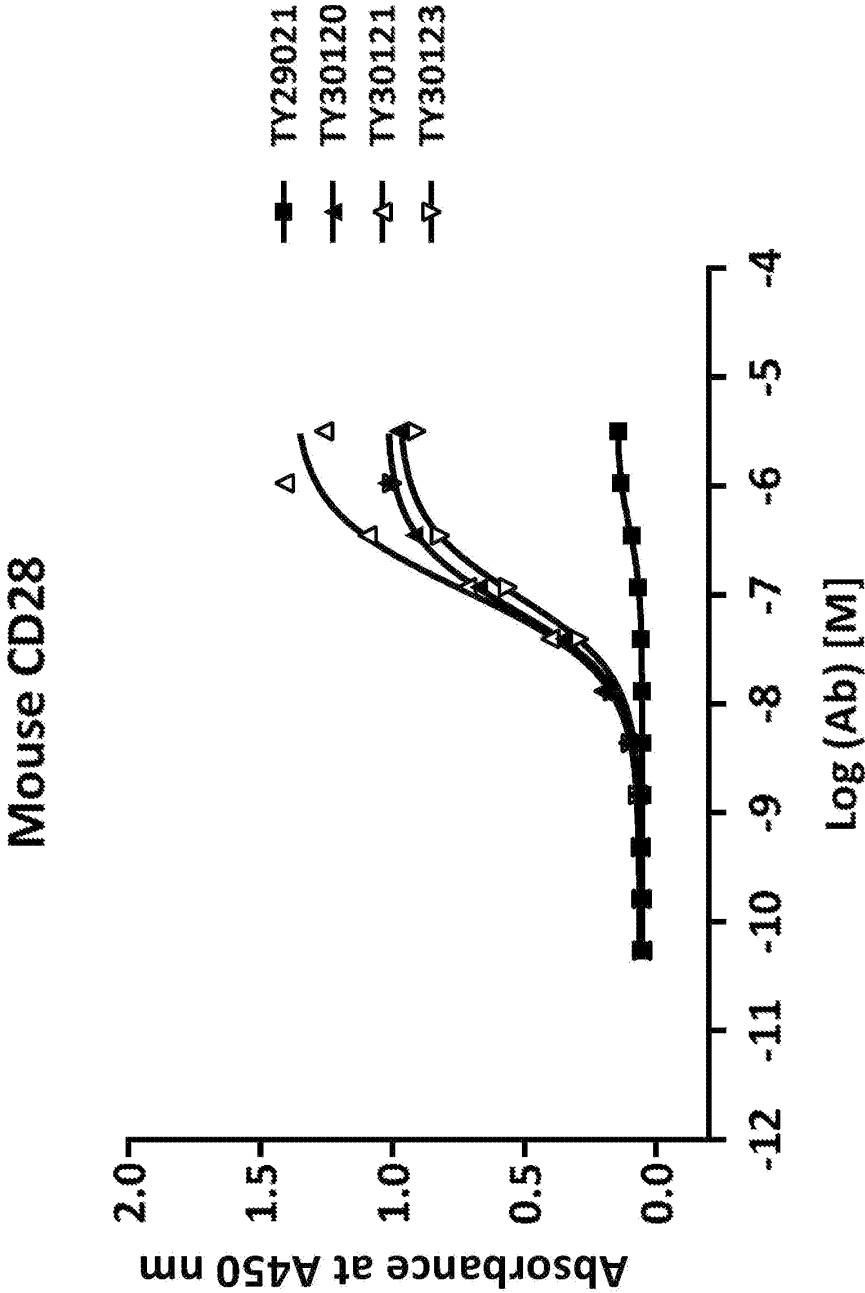
[Fig. 23B]



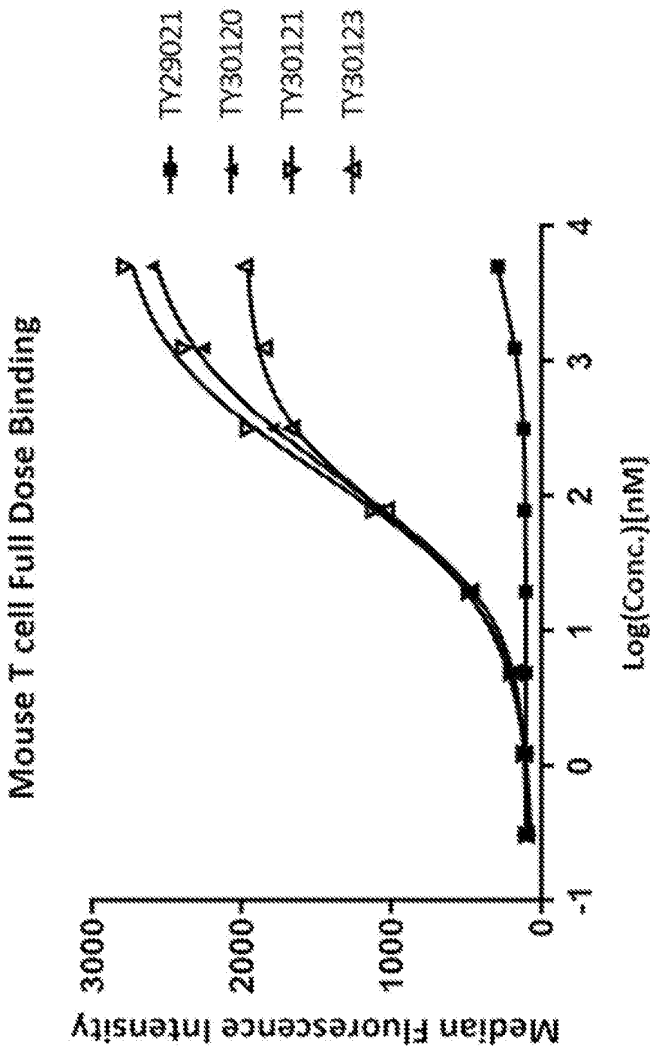
[Fig. 24A]



[Fig. 24B]



[Fig. 25]



	EC ₅₀ (nM)	Max MFI	AUC
TY29021	NA	364.1	548.8
TY30120	144.8	2711	4375
TY30121	142.5	2857	4619
TY30123	76.18	1981	3822