

FIG. 1B

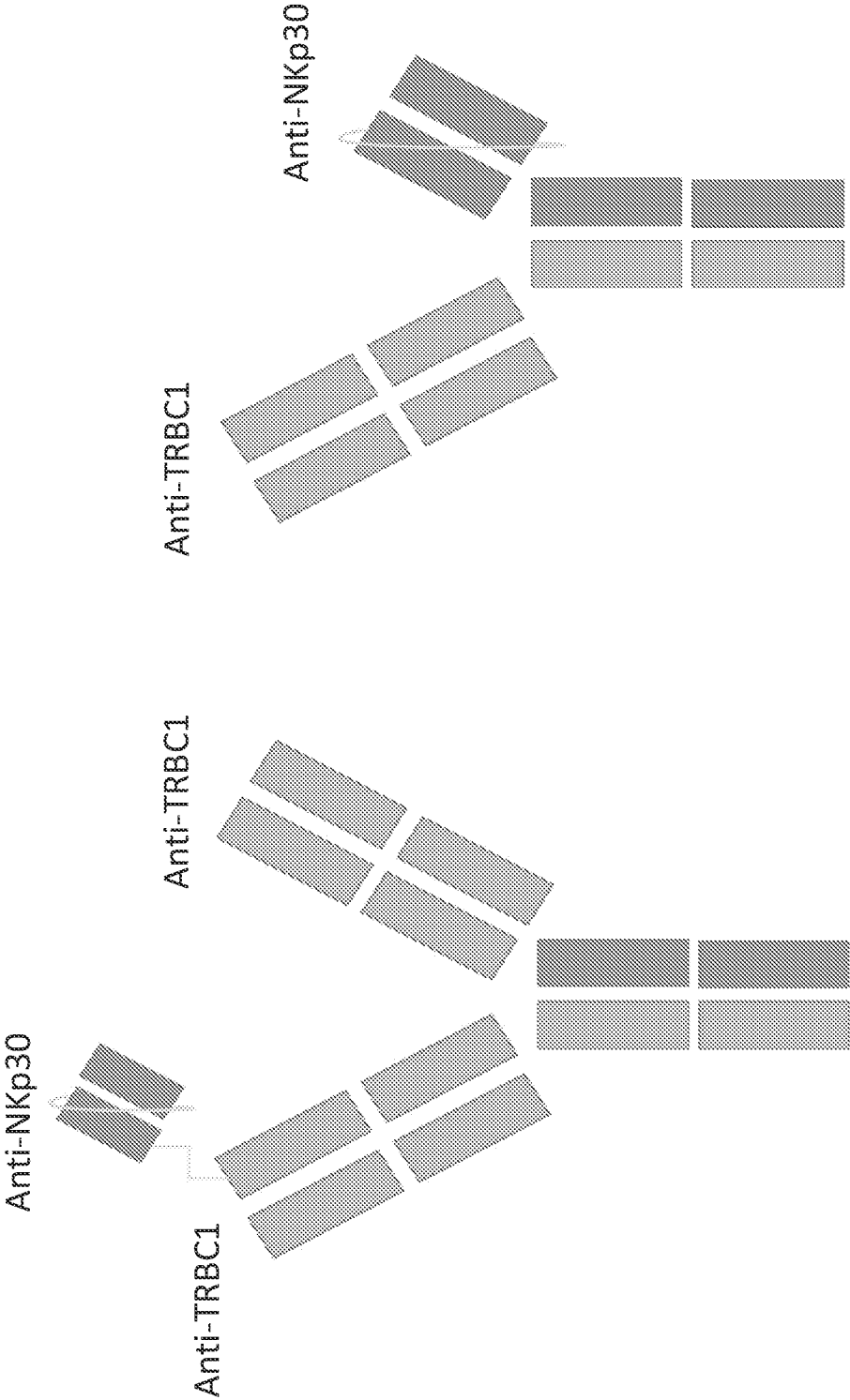


FIG. 1A

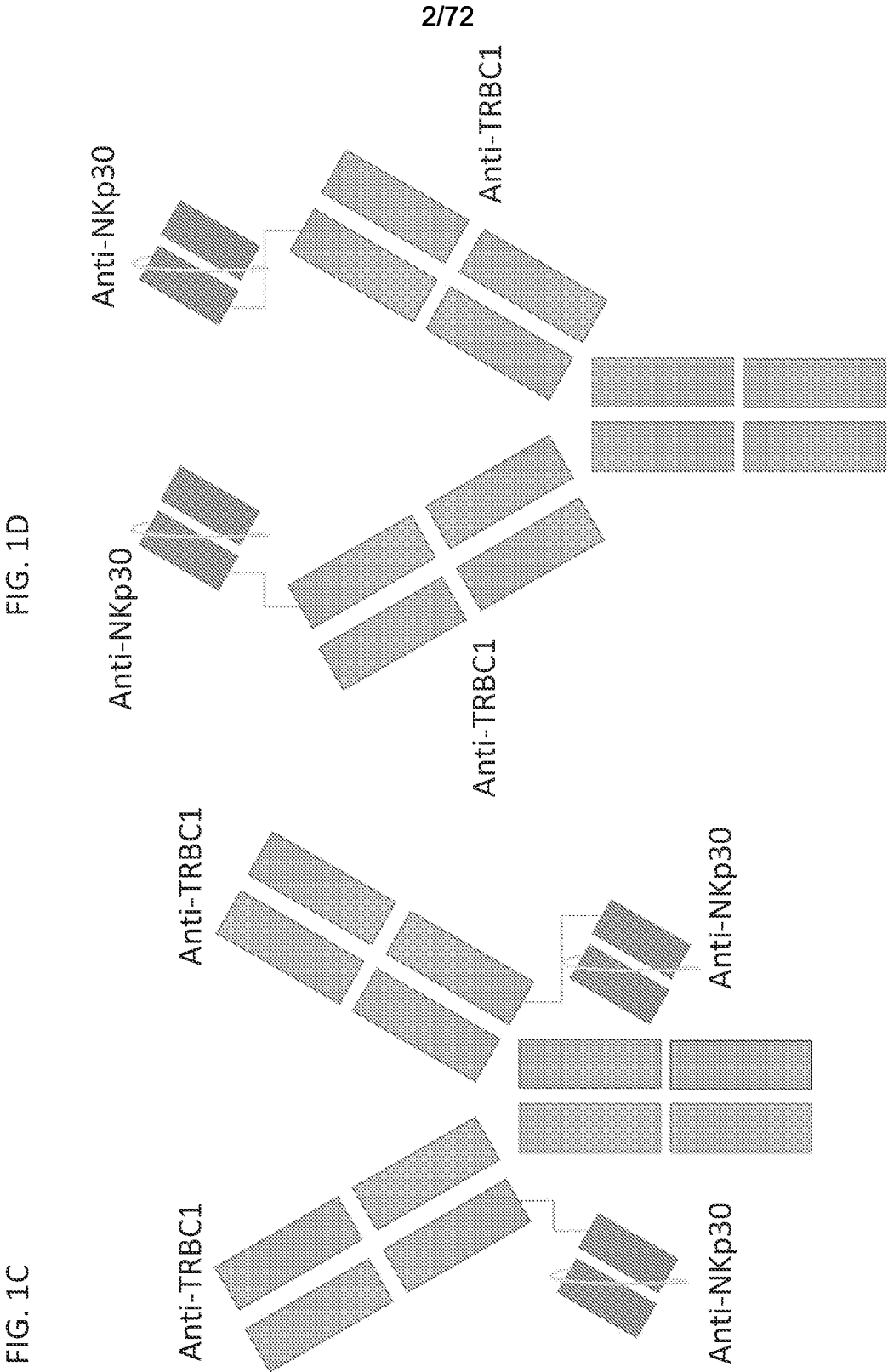


FIG. 2A

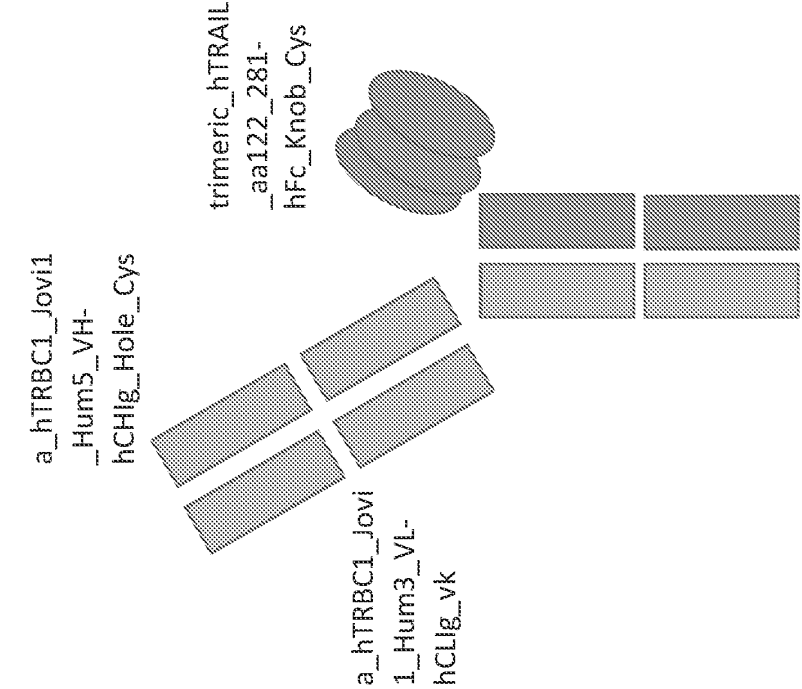


FIG. 2B

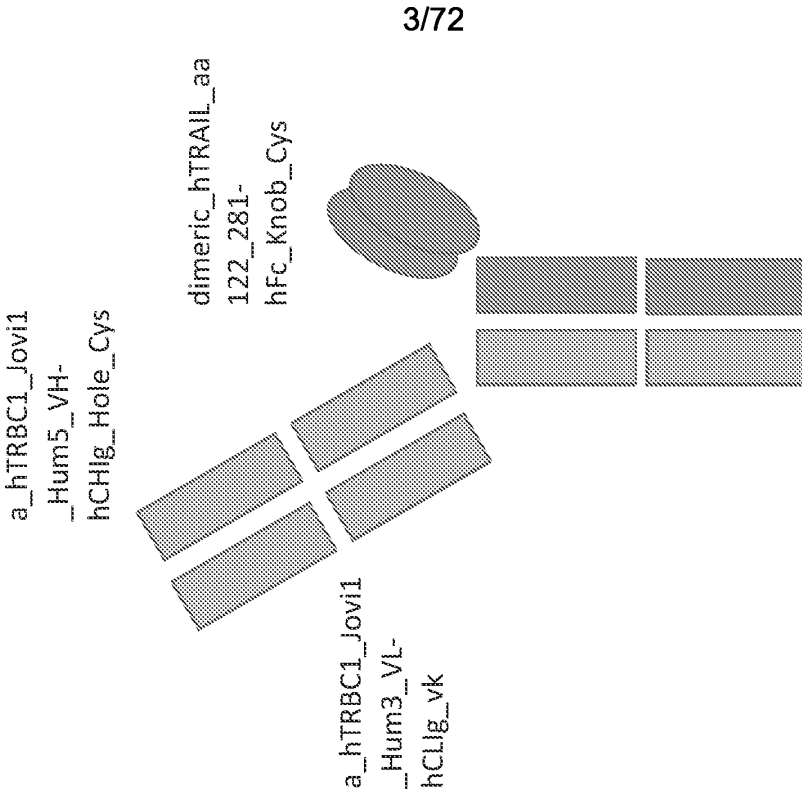


FIG. 2D

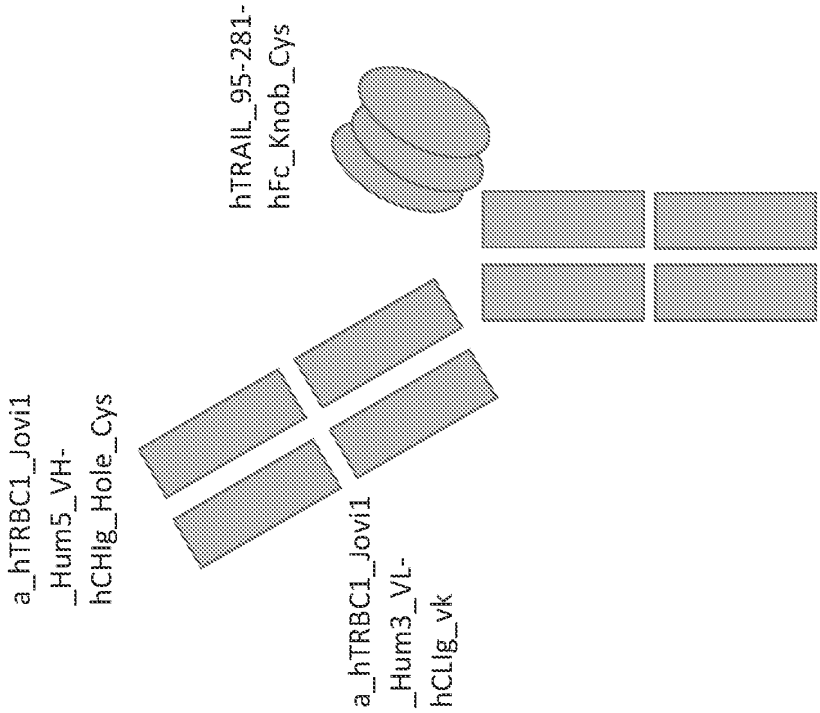


FIG. 2C

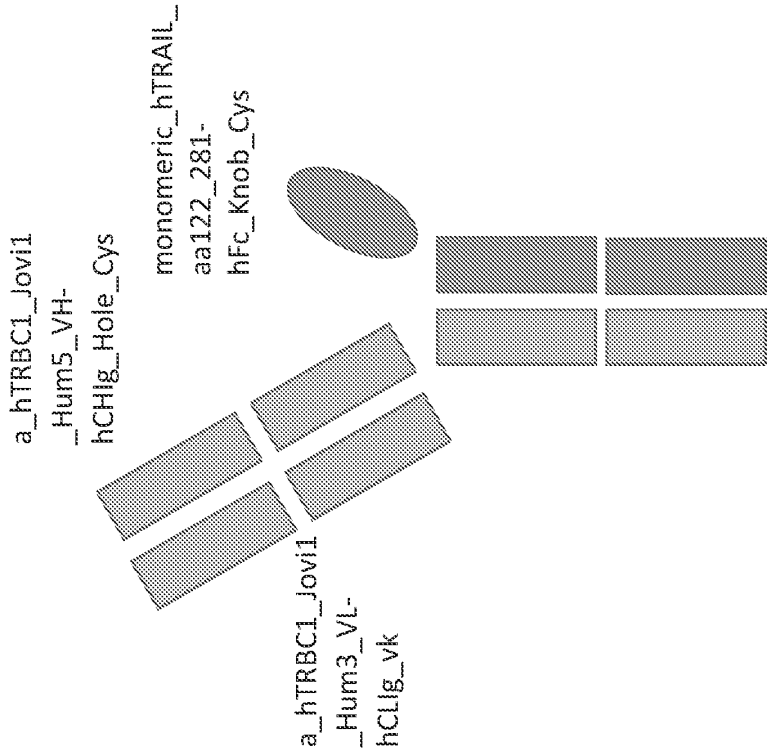


FIG. 2E

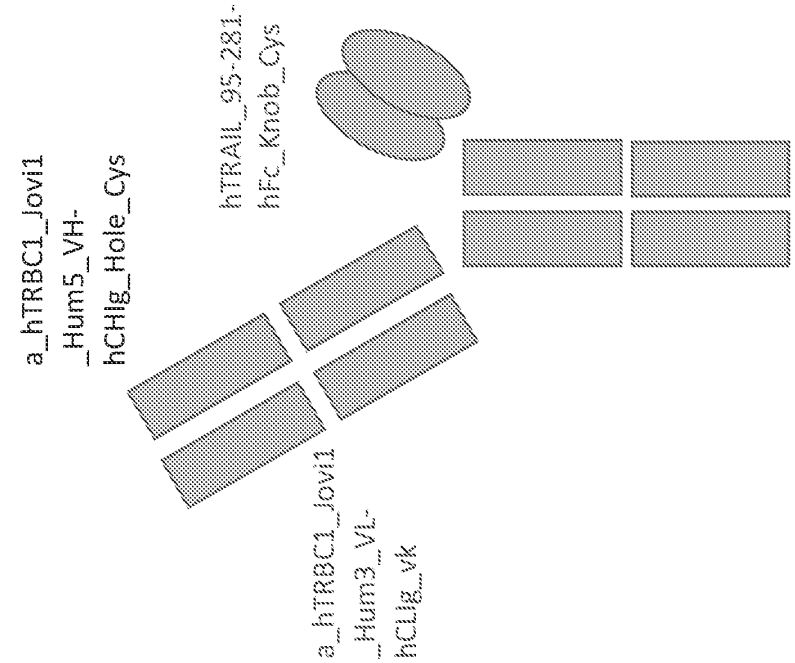


FIG. 2F

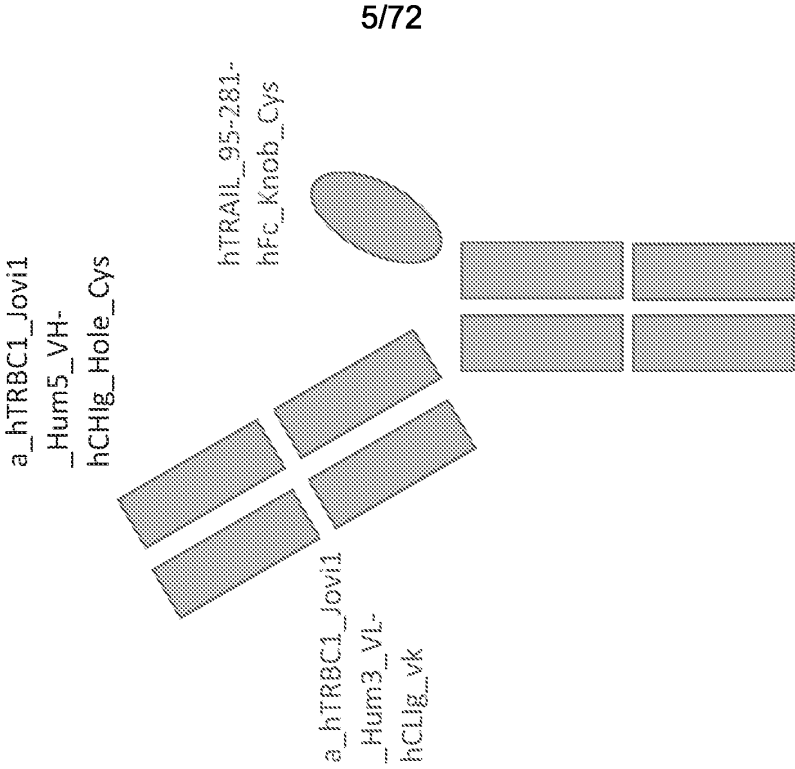


FIG. 3A

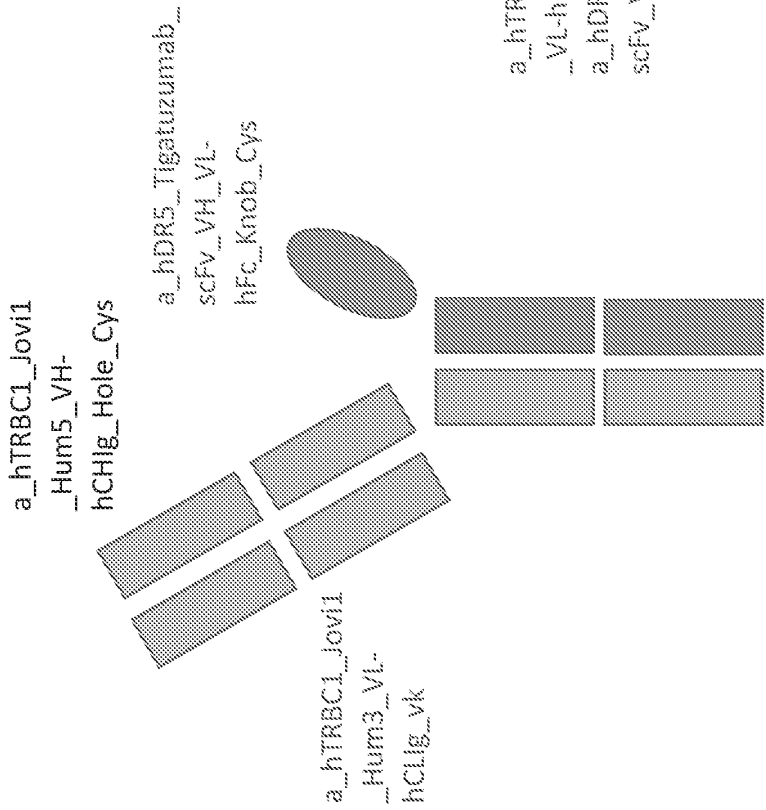
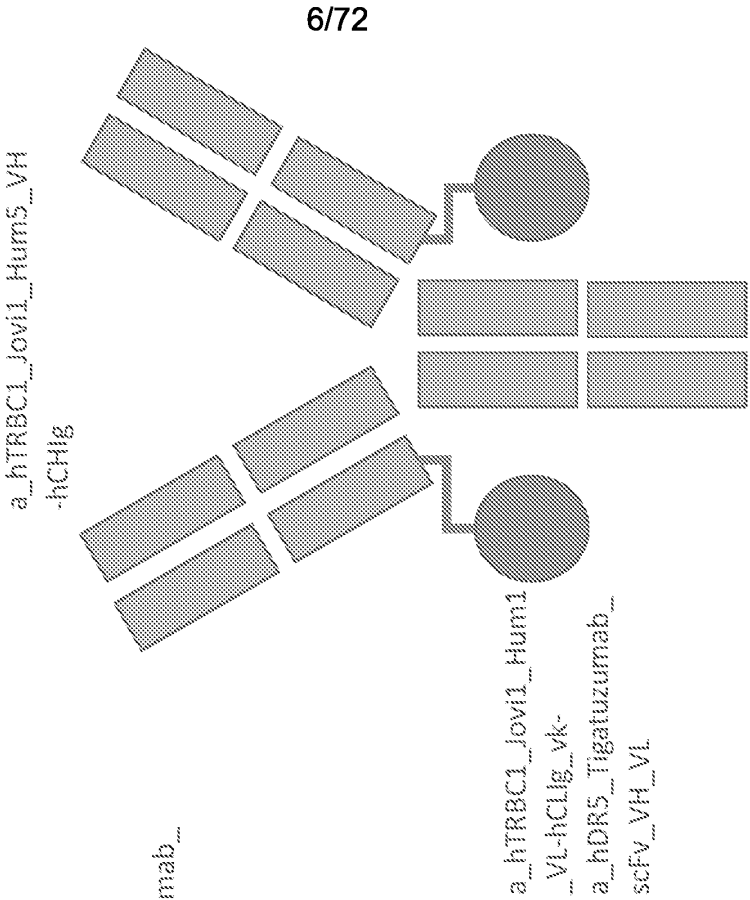


FIG. 3B



VH	Framework 1																																			CDR 1									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35										
	SEQ.ID NO: 1	Q	V	Q	L	Q	Q	S	G	P	E	L	V	K	P	G	T	S	V	K	I	S	C	K	A	S	G	Y	S	F	T	T	Y	Y	I	H									
	SEQ.ID NO: 9	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V	S	C	K	A	S	G	Y	S	F	T	T	Y	Y	I	H									
CDR 2																																													
Framework 2																																													
SEQ.ID NO: 1	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	52a	53	54	55	56	57	58	59	60	61	62	63	64	65														
SEQ.ID NO: 1	W	V	K	Q	R	P	G	Q	G	L	E	W	I	G	W	F	F	P	G	S	G	N	I	K	Y	N	E	K	F	K	G														
SEQ.ID NO: 9	W	V	R	Q	A	P	G	Q	G	L	E	W	M	G	W	F	F	P	G	S	G	N	I	K	Y	N	E	K	F	K	G														
Framework 3																																													
SEQ.ID NO: 1	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	82a	82b	82c	83	84	85	86	87	88	89	90	91	92	93	94			
SEQ.ID NO: 1	K	A	T	L	T	A	D	T	S	S	S	T	A	Y	M	Q	L	S	S	L	T	S	E	E	S	A	V	Y	F	C	A	G													
SEQ.ID NO: 9	R	V	T	I	T	A	D	I	S	T	S	T	A	Y	M	E	L	S	S	L	R	S	E	D	T	A	V	Y	Y	C	A	G													
Framework 4																																													
CDR 3																																													
SEQ.ID NO: 1	95	96	97	98	99	100	100a	100b	101	102	103	104	105	106	107	108	109	110	111	112	113																								
SEQ.ID NO: 1	S	Y	Y	S	Y	D	V	L	D	Y	W	G	H	G	T	T	L	T	V	S	S																								
SEQ.ID NO: 9	S	Y	Y	S	Y	D	V	L	D	Y	W	G	Q	G	T	T	V	T	V	S	S																								

FIG. 4A

VL																																				
Framework 1																								CDR 1												
SEQ ID NO: 2	D	I	L	M	T	Q	S	Q	K	F	M	S	T	S	L	G	D	R	V	S	V	S	C	K	A	S	Q	N	V	G	I	N	V	V		
SEQ ID NO: 10	D	I	Q	M	T	Q	S	P	S	E	L	S	A	S	V	G	D	R	V	T	I	T	C	K	A	S	Q	N	V	G	I	N	V	V		
SEQ ID NO: 11	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	K	A	S	Q	N	V	G	I	N	V	V		
Framework 2																								CDR 2												
SEQ ID NO: 2	W	H	Q	Q	K	P	G	Q	S	P	K	A	L	I	Y	S	S	S	H	R	Y	S	S	S	S	H	R	Y	S	S	S	S	H	R	Y	S
SEQ ID NO: 10	W	H	Q	Q	K	P	G	K	A	P	K	A	L	I	Y	S	S	S	H	R	Y	S	S	S	S	H	R	Y	S	S	S	S	H	R	Y	S
SEQ ID NO: 11	W	H	Q	Q	K	P	G	K	V	P	K	A	L	I	Y	S	S	S	H	R	Y	S	S	S	S	H	R	Y	S	S	S	S	H	R	Y	S
Framework 3																								CDR 3												
SEQ ID NO: 2	G	V	P	D	R	F	T	G	S	G	S	G	T	D	F	T	L	T	I	N	N	V	Q	S	E	D	L	A	E	Y	F	C	C	C		
SEQ ID NO: 10	G	V	P	S	R	F	S	G	S	G	S	G	T	E	F	T	L	T	I	S	S	L	Q	P	E	D	F	A	T	Y	E	C	C	C		
SEQ ID NO: 11	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	L	Q	P	E	D	V	A	T	Y	E	C	C	C		
Framework 4																								CDR 4												
SEQ ID NO: 2	Q	Q	F	K	S	Y	P	L	T	F	G	A	G	T	K	L	E	L	K																	
SEQ ID NO: 10	Q	Q	F	K	S	Y	P	L	T	F	G	Q	G	T	K	L	E	I	K																	
SEQ ID NO: 11	Q	Q	F	K	S	Y	P	L	T	F	G	Q	G	T	K	L	E	I	K																	

FIG.4B

VL			Framework 1										CDR 1																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
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SEQ.ID NO:26	D	N	Q	L	T	Q	S	P	S	F	L	S	A	S	V	G	D	R	V	T	I	T	C	R	A	S	S	S	V	-	N	Y	I	Y
SEQ.ID NO:27	D	N	Q	L	T	Q	S	P	S	L	S	A	S	V	G	D	R	V	T	I	T	C	R	A	S	S	S	V	-	N	Y	I	Y	
SEQ.ID NO:28	E	N	V	L	T	Q	S	P	A	T	L	S	V	S	P	G	E	R	A	T	L	S	C	R	A	S	S	S	V	-	N	Y	I	Y
SEQ.ID NO:29	Q	N	V	L	T	Q	P	P	S	-	A	S	G	T	P	G	Q	R	V	T	I	S	C	R	A	S	S	S	V	-	N	Y	I	Y
SEQ.ID NO:30	S	N	E	L	T	Q	P	P	S	-	V	S	V	S	P	G	Q	T	A	R	I	T	C	R	A	S	S	S	V	-	N	Y	I	Y

			Framework 2										CDR 2									
	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
SEQ.ID NO:16	W	Y	Q	Q	K	S	D	A	S	P	K	L	W	I	Y	Y	T	S	N	L	A	P
SEQ.ID NO:26	W	Y	Q	Q	K	P	G	K	A	P	K	L	L	I	Y	Y	T	S	N	L	A	P
SEQ.ID NO:27	W	Y	Q	Q	K	P	G	K	A	P	K	L	L	I	Y	Y	T	S	N	L	A	P
SEQ.ID NO:28	W	Y	Q	Q	K	P	G	Q	A	P	R	L	L	I	Y	Y	T	S	N	L	A	P
SEQ.ID NO:29	W	Y	Q	Q	L	P	G	T	A	P	K	L	L	I	Y	Y	T	S	N	L	A	P
SEQ.ID NO:30	W	Y	Q	Q	K	S	G	Q	A	P	V	L	V	I	Y	Y	T	S	N	L	A	P

			Framework 3																														
	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	
SEQ.ID NO:16	G	V	P	T	R	F	S	G	S	G	S	G	N	S	Y	S	L	T	I	S	S	M	E	G	E	D	A	A	T	Y	Y	C	
SEQ.ID NO:26	G	V	P	S	R	F	S	G	S	G	S	G	N	E	Y	T	L	T	I	S	S	L	Q	P	E	D	F	A	T	Y	Y	C	
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SEQ.ID NO:28	G	I	P	A	R	F	S	G	S	G	S	G	N	E	Y	T	L	T	I	S	S	L	Q	P	E	D	F	A	V	Y	Y	C	
SEQ.ID NO:29	G	V	P	D	R	F	S	G	S	G	S	G	N	E	Y	T	L	T	I	S	S	L	R	S	E	D	E	A	D	Y	Y	C	
SEQ.ID NO:30	G	I	P	E	R	F	S	G	S	G	S	G	N	E	Y	T	L	T	I	S	S	G	A	Q	V	E	D	E	A	D	Y	Y	C

			CDR 3										Framework 4									
	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107			
SEQ.ID NO:16	Q	Q	F	T	S	S	P	F	T	F	G	S	G	T	K	L	E	I	K			
SEQ.ID NO:26	Q	Q	F	T	S	S	P	F	T	F	G	Q	G	T	K	L	E	I	K			
SEQ.ID NO:27	Q	Q	F	T	S	S	P	F	T	F	G	Q	G	T	K	L	E	I	K			
SEQ.ID NO:28	Q	Q	F	T	S	S	P	F	T	F	G	Q	G	T	K	L	E	I	K			
SEQ.ID NO:29	Q	Q	F	T	S	S	P	F	T	F	G	T	G	T	K	V	T	V	L			
SEQ.ID NO:30	Q	Q	F	T	S	S	P	F	T	F	G	T	G	T	K	V	T	V	L			

FIG. 5B

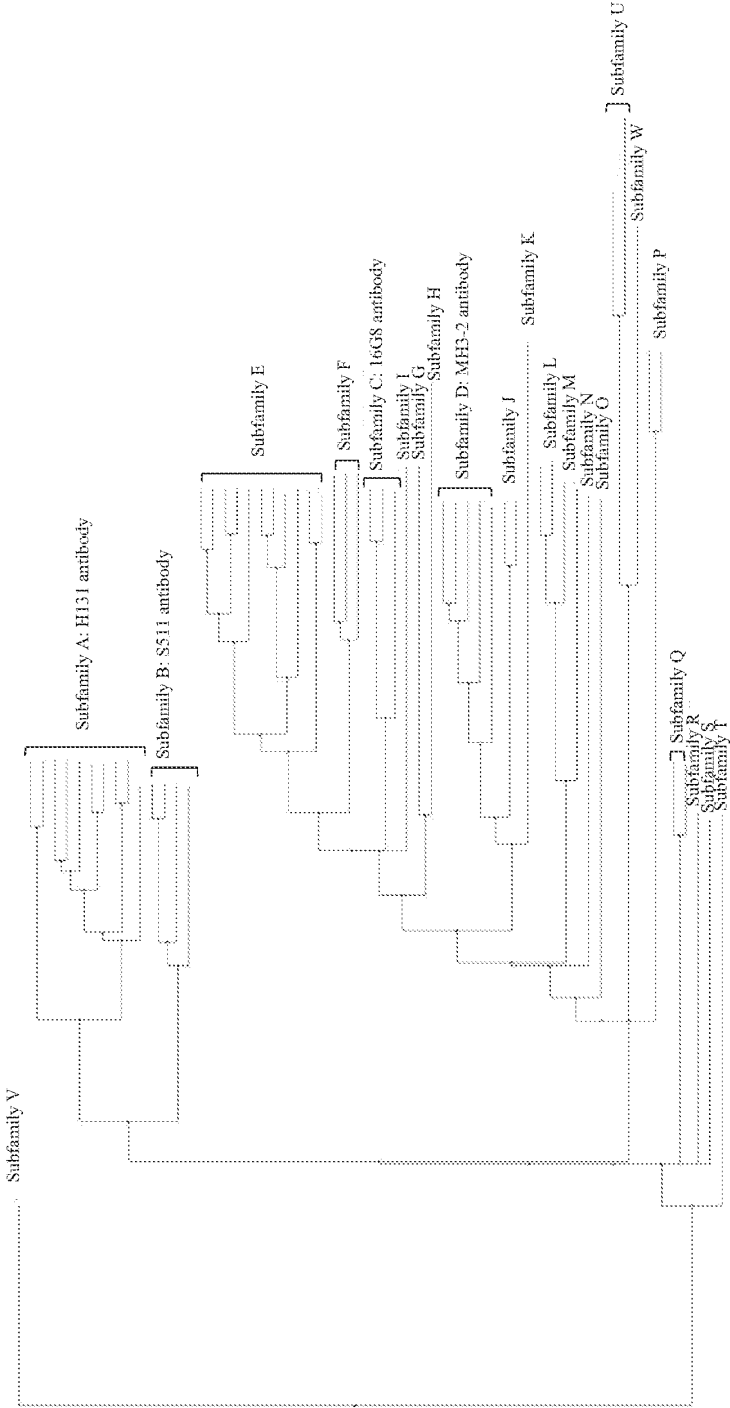
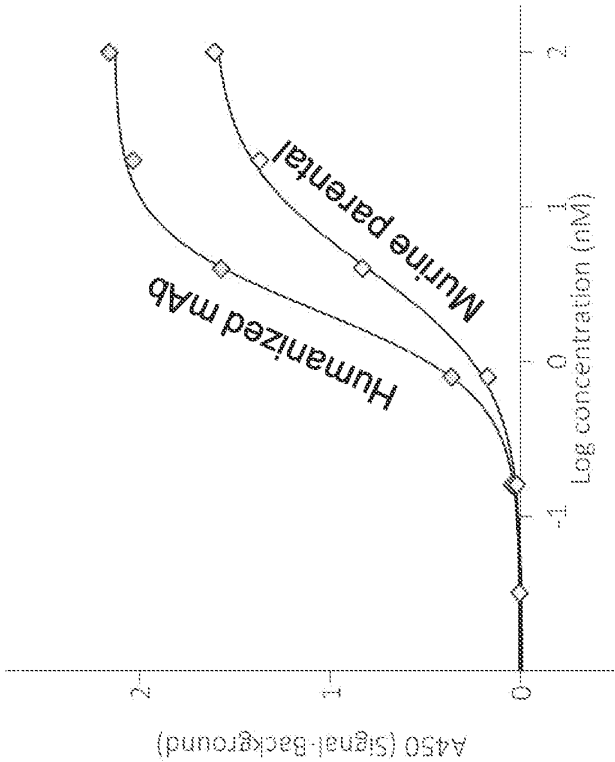
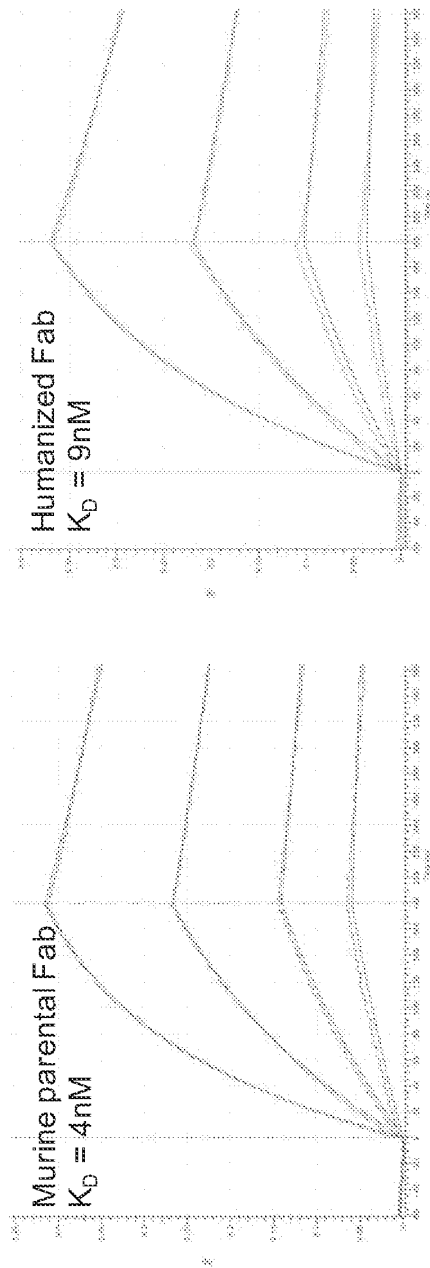


FIG. 6



ELISA data showing direct binding of anti-TRBC1 mAbs (bivalent) to hTRBC1 coated on the plate

FIG. 7



Octet data showing binding of anti-TRBC1 Fabs to hTRBC1. hTRBC1 was captured on the sensor tip and dipped in solution containing different concentrations of monovalent Fabs

FIG. 8

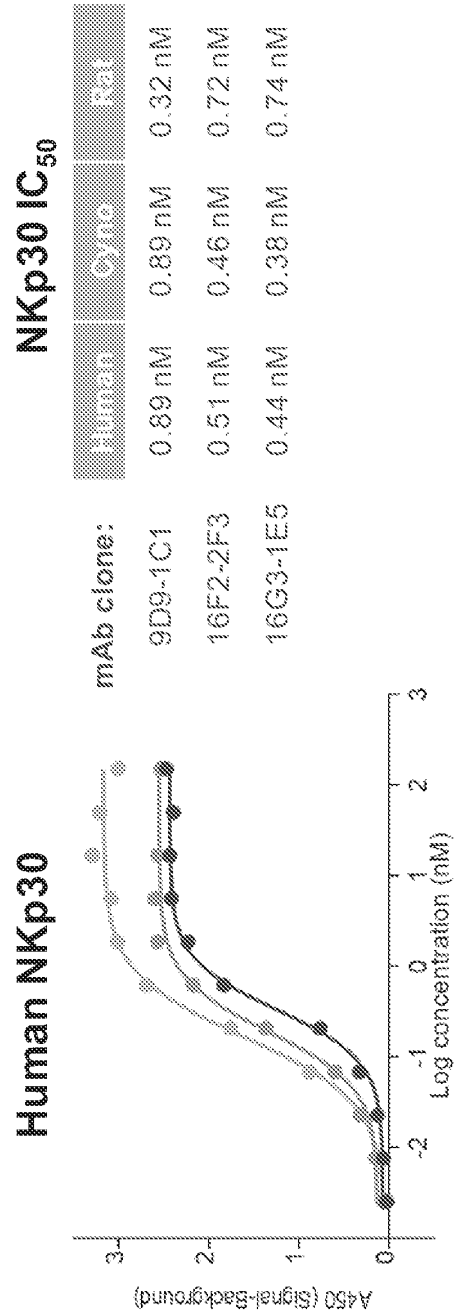


FIG. 9

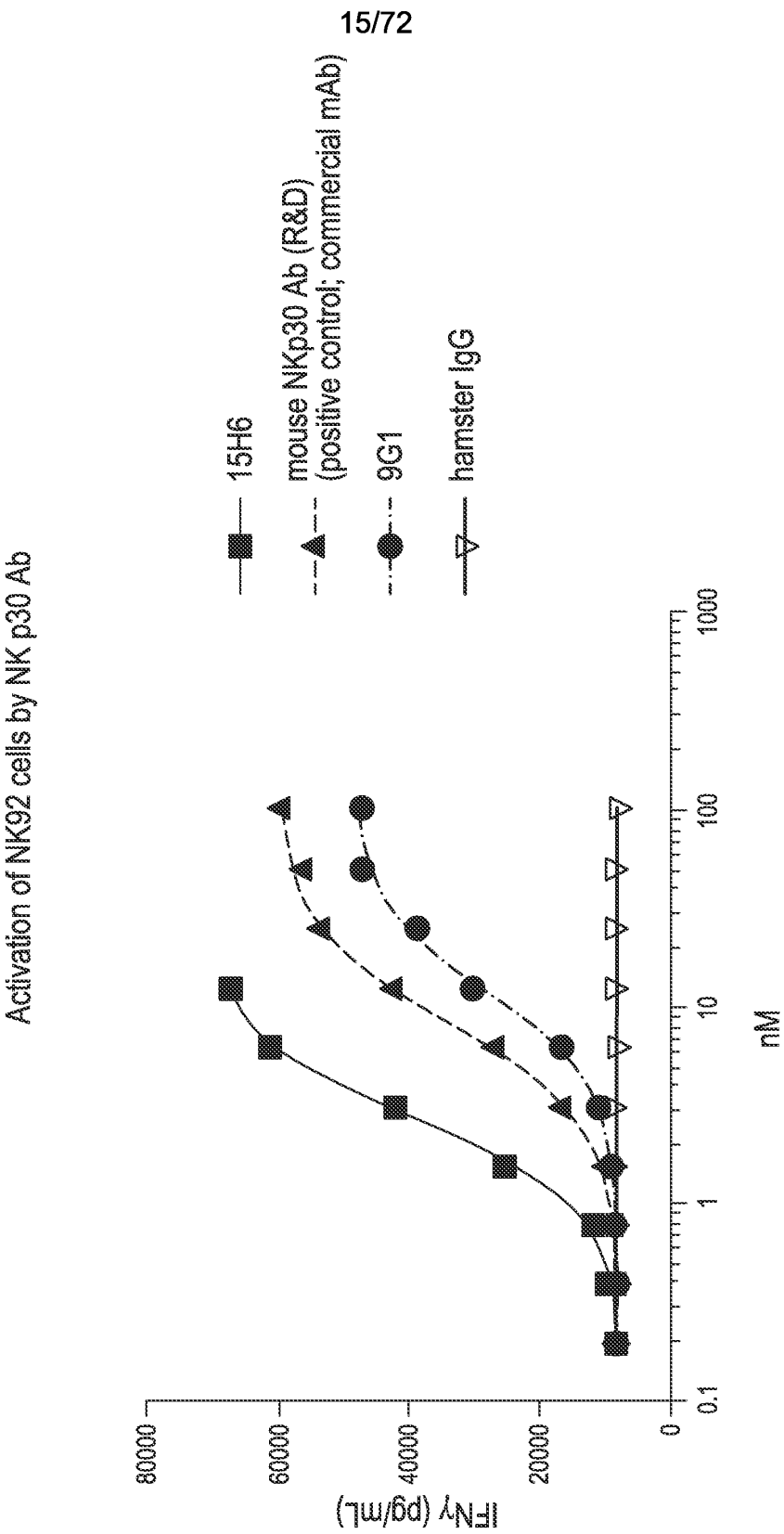


FIG. 10

FIG. 11A

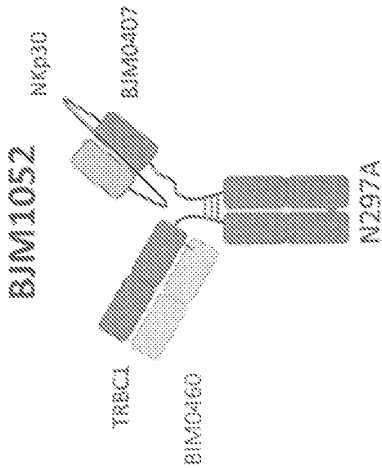


FIG. 11B

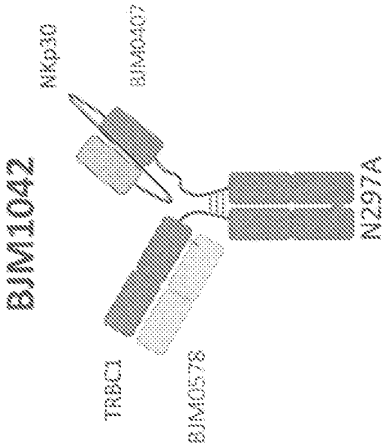


FIG. 11C

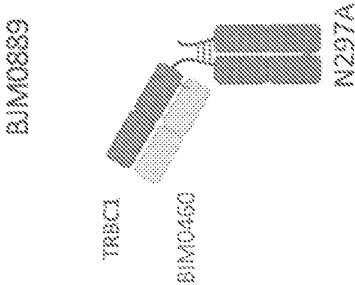


FIG. 11D

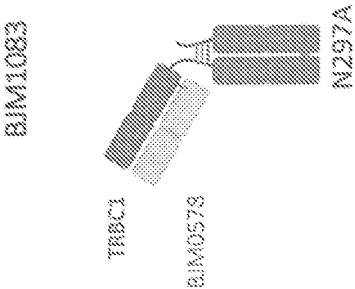
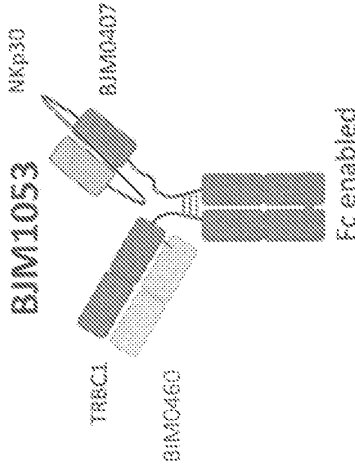


FIG. 11E



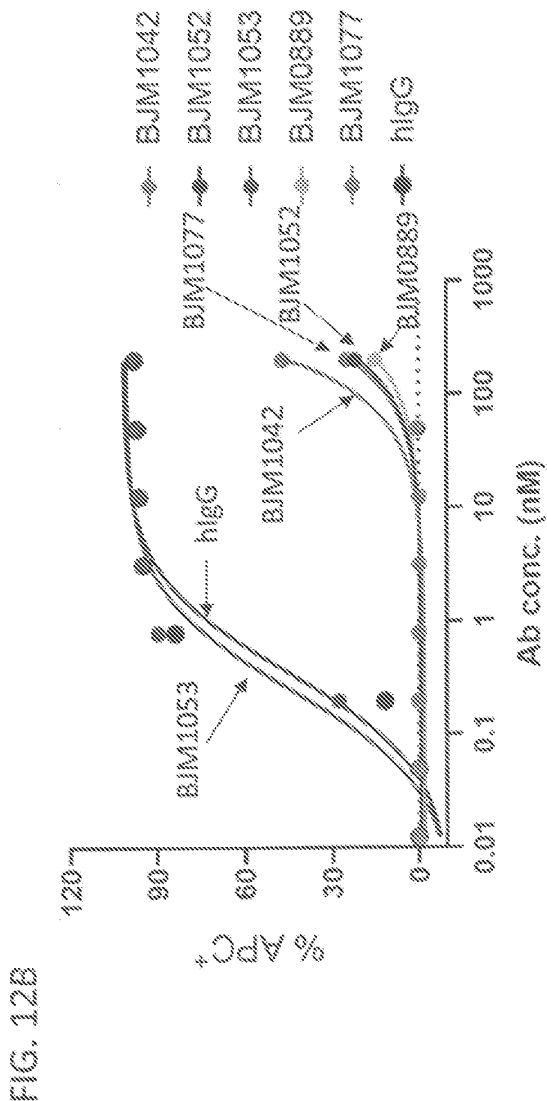
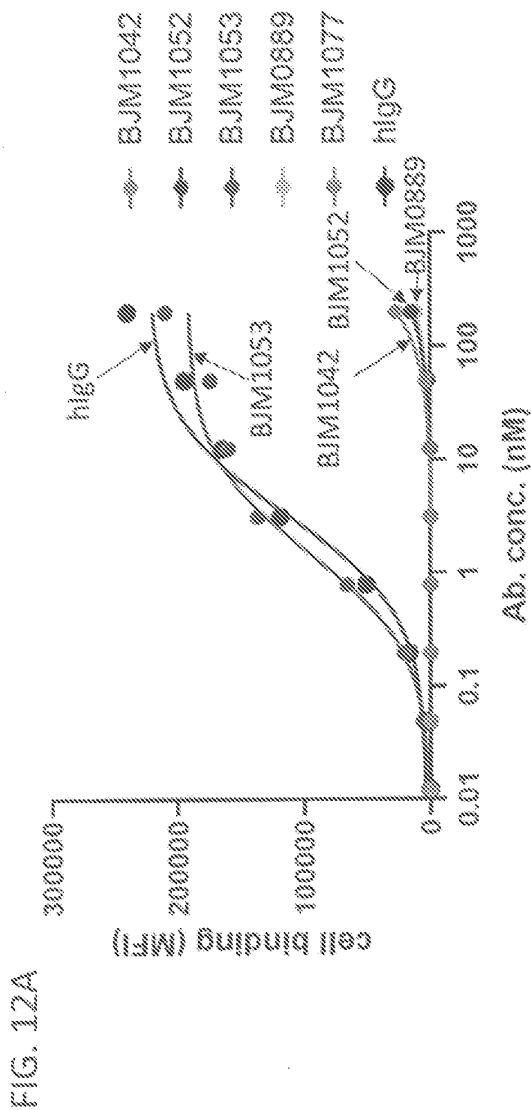


FIG. 13A

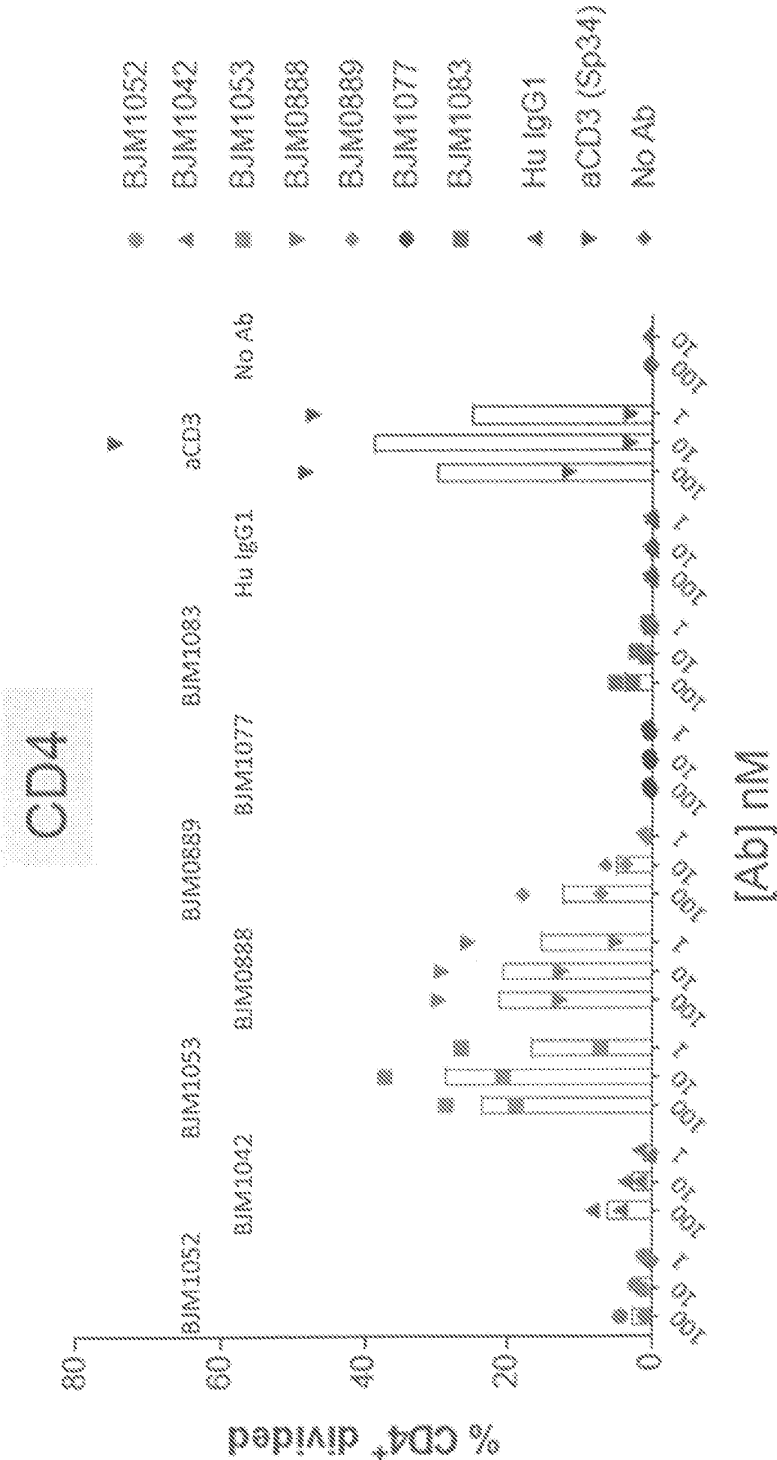


FIG. 13B

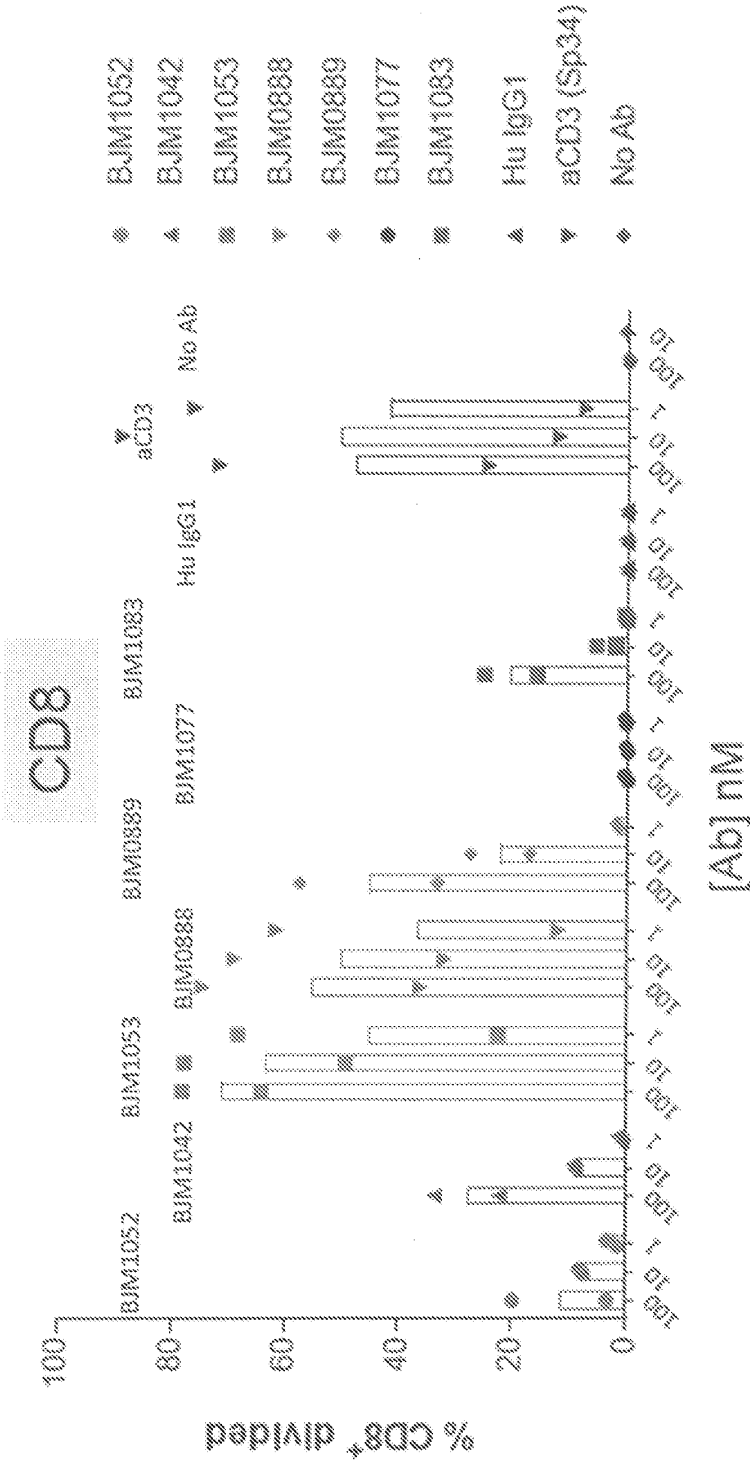


FIG. 13C

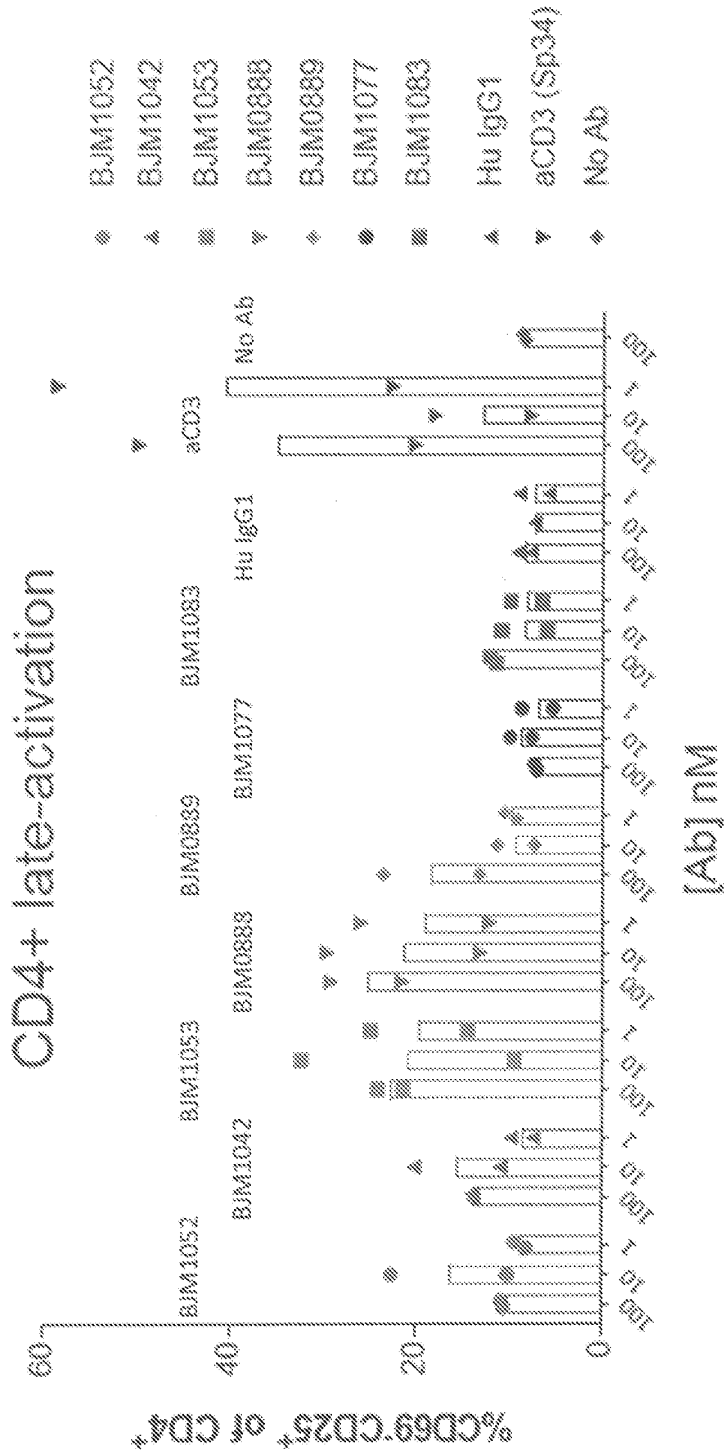


FIG. 13D

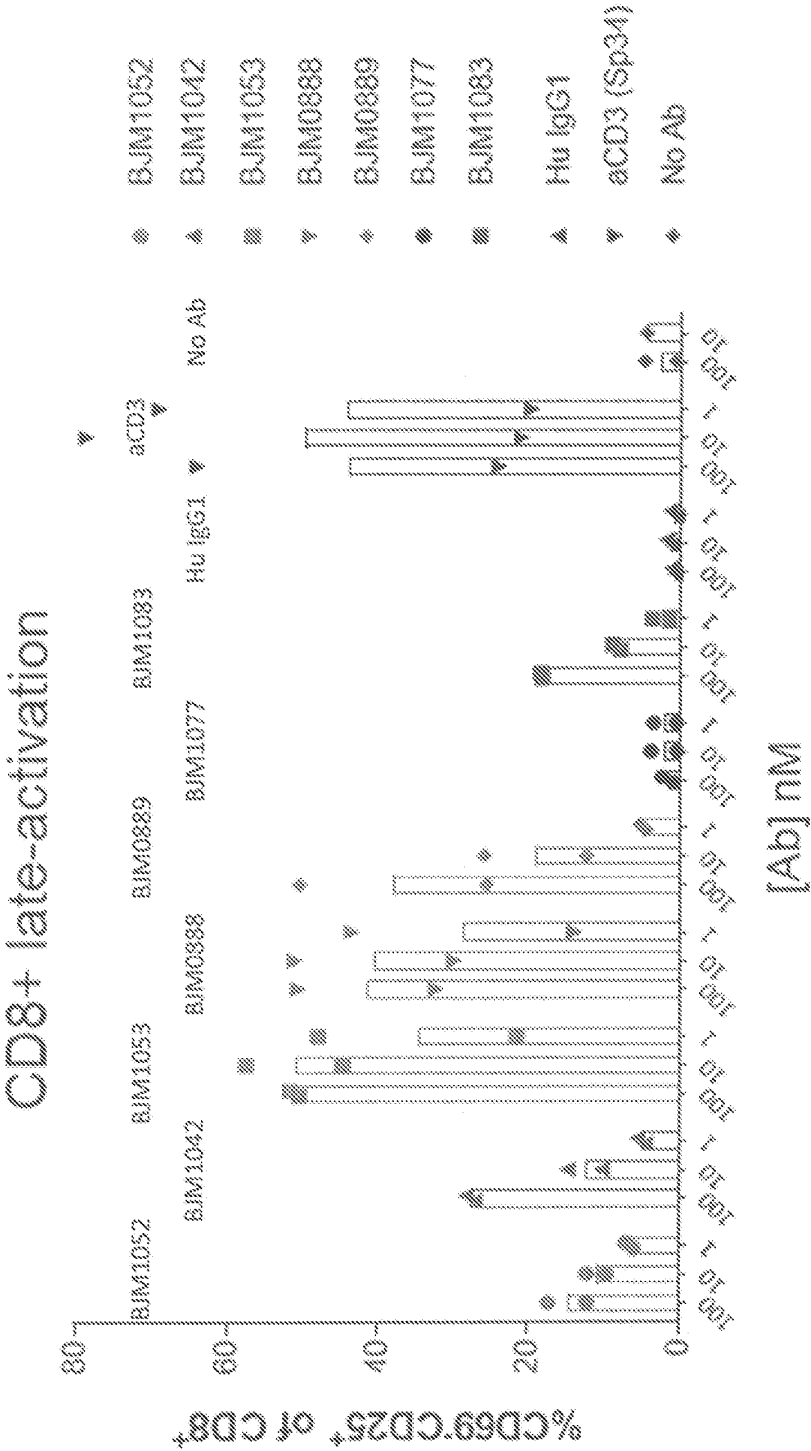
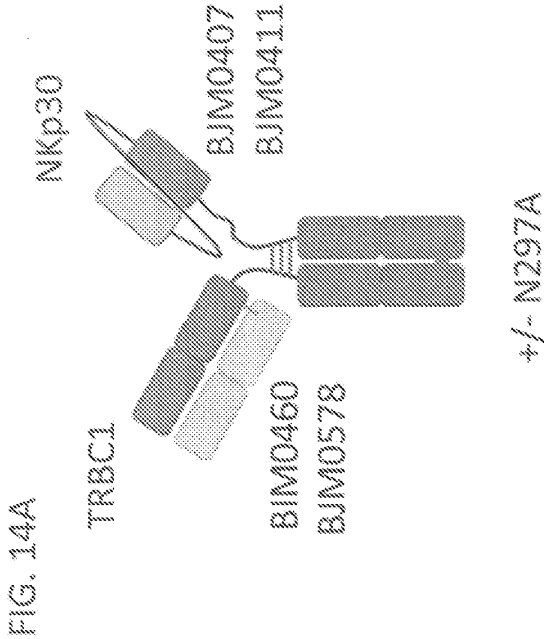


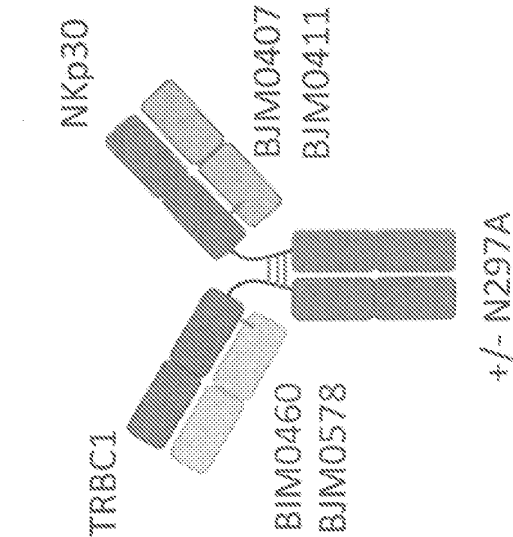
FIG. 14A



BIM1048 460/407 N297A	BIM1032 578/407
BIM1051 460/407	BIM1034 578/411
BIM1052 460/411 N297A	BIM1038 578/407 N297A
BIM1053 460/411	BIM1042 578/411 N297A

FIG. 14B

FIG. 14C



BIM0862 460/407
BIM0863 460/411
BIM1028 578/407 N297A
BIM1046 578/411 N297A

FIG. 14D

FIG. 15A

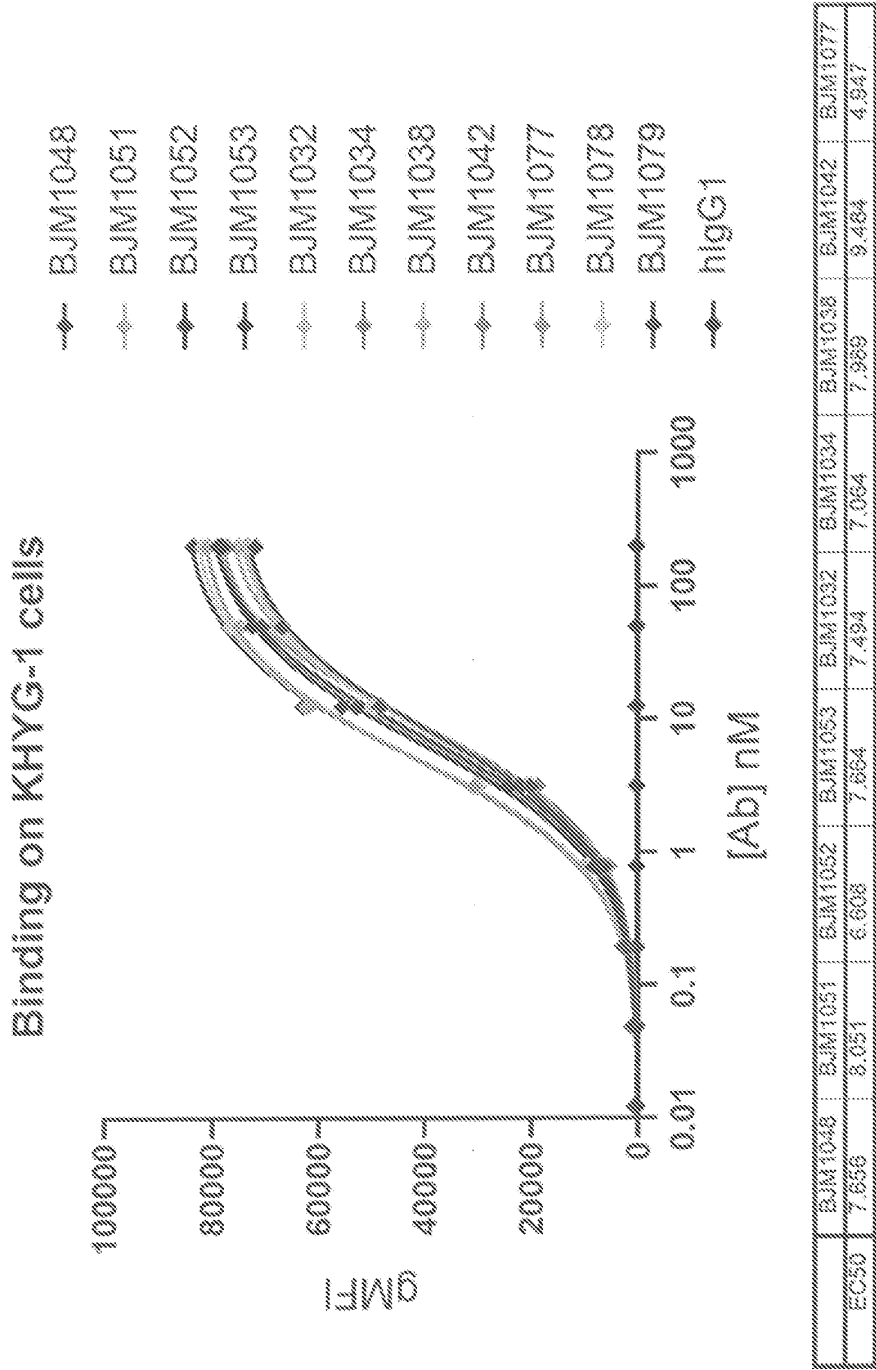
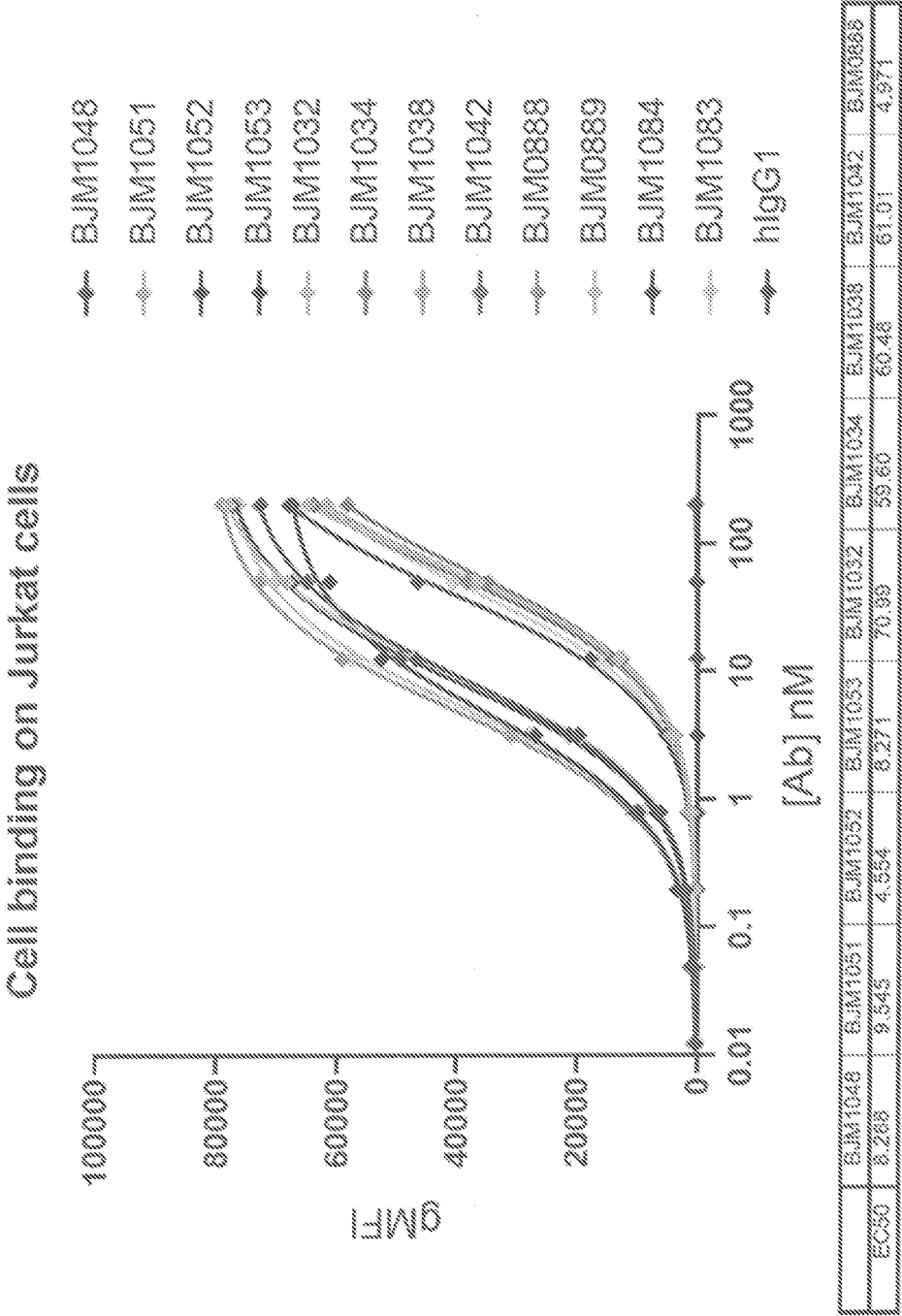


FIG. 15B



25/72

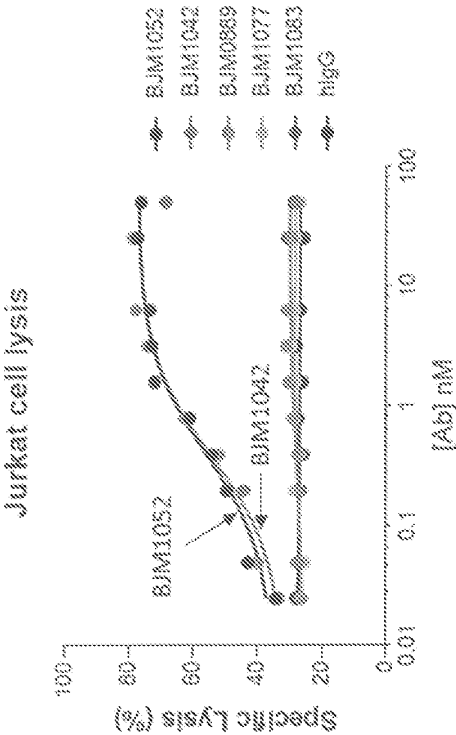
FIG. 15D

Sample	gMFI	EC50 Jurkat (TRBC1) [nM]
BJM1048	7.656	8.288
BJM1051	8.051	9.545
BJM1052	6.608	4.554
BJM1053	7.664	8.271
BJM1032	7.494	70.99
BJM1034	7.064	59.6
BJM1038	7.989	60.48
BJM1042	9.484	61.01
BJM1077	4.947	
BJM1078	5.2	
BJM1079	5.357	
BJM0888		4.971
BJM0889		5.261
BJM1084		40.33
BJM1083		44.16

FIG. 15C

BJM1048	Nkp30/TRBC1 bispecific 407/460_N297A
BJM1051	Nkp30/TRBC1 bispecific 407/460_WT
BJM1052	Nkp30/TRBC1 bispecific 411/460_N297A
BJM1053	Nkp30/TRBC1 bispecific 411/460_WT
BJM1032	Nkp30/TRBC1 bispecific 407/578_WT
BJM1034	Nkp30/TRBC1 bispecific 411/578_WT
BJM1038	Nkp30/TRBC1 bispecific 407/578_N297A
BJM1042	Nkp30/TRBC1 bispecific 411/578_N297A
BJM1077	Nkp30 single arm control 411_N297A
BJM1078	Nkp30 single arm control 407_WT
BJM1079	Nkp30 single arm control 411_WT
BJM0888	TRBC1 single arm WT 460
BJM0889	TRBC1 single arm N297A 460
BJM1084	TRBC1 578 single arm control WT
BJM1083	TRBC1 578 single arm control N297A knob

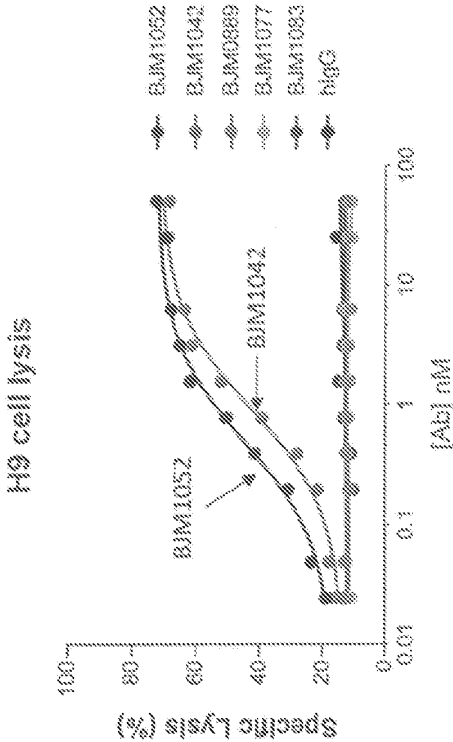
FIG. 16A



Jurkat	BJM1052	BJM1042
EC ₅₀	0.3976	0.3836

BJM1052: NKp30xTRBC1(460)
BJM1042: NKp30xTRBC1(578)
BJM0889: TRBC1 (460, N297A)
BJM1077: NKp30 (N297A)
BJM1083: TRBC1 (578, N297A)

FIG. 16B



H9	BJM1052	BJM1042
EC ₅₀	0.4775	0.9082

FIG. 16C

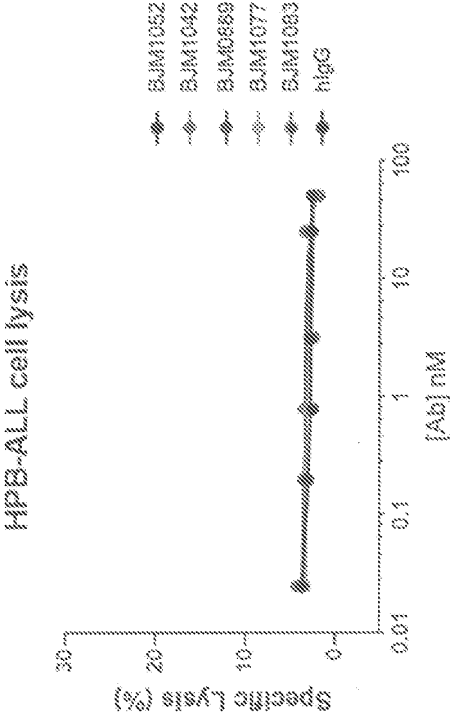
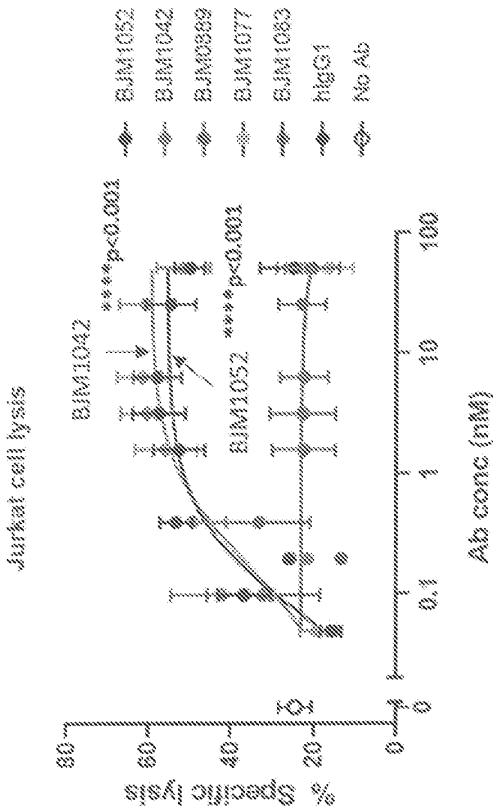
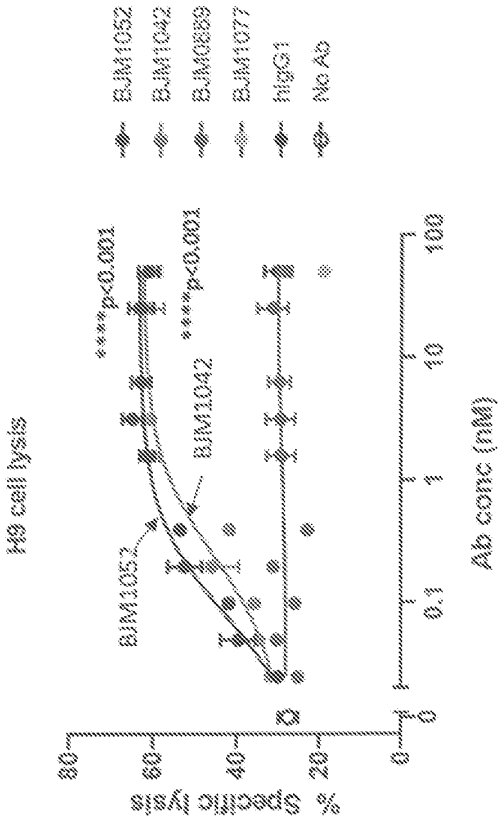


FIG. 17A



	BJM1052	BJM1042
EC50	0.064	0.1778

FIG. 17B



	BJM1052	BJM1042
EC50	0.075	0.238

BJM1052: NKp30xTRBC1(460)
BJM1042: NKp30xTRBC1(578)
BJM0889: TRBC1 (460, N297A)
BJM1077: NKp30 (N297A)
BJM1063: TRBC1 (578, N297A)

FIG. 17C

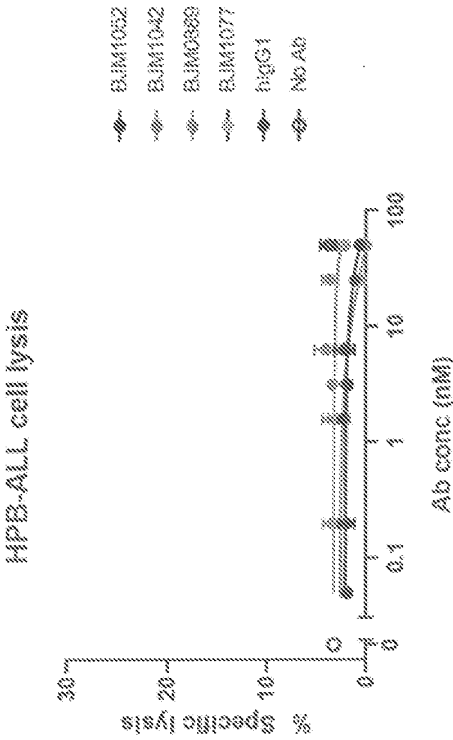


FIG. 18A

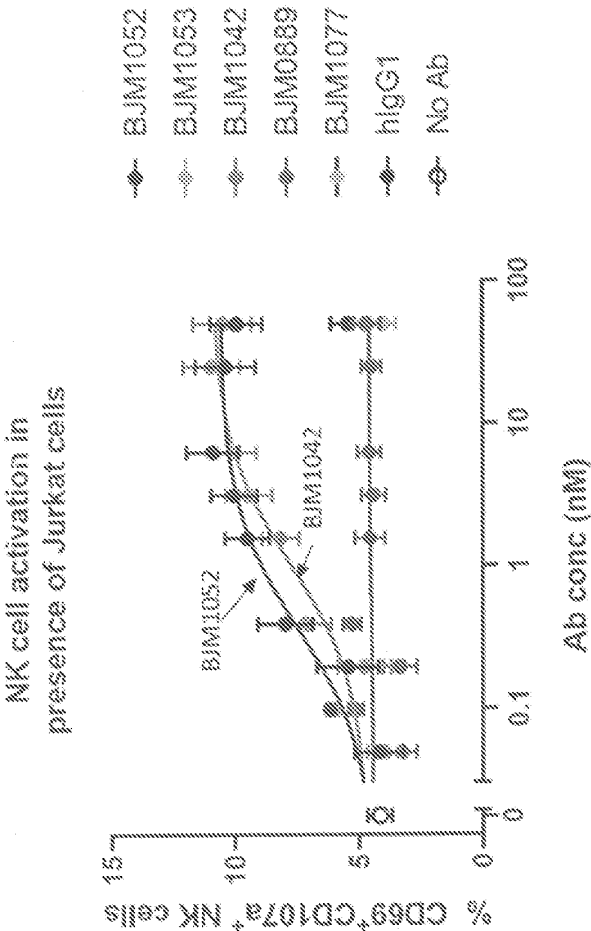


FIG. 18B

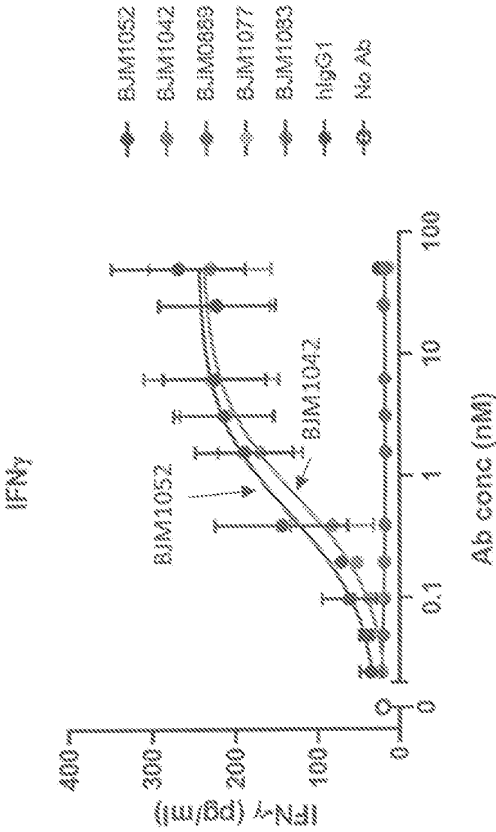


FIG. 18C

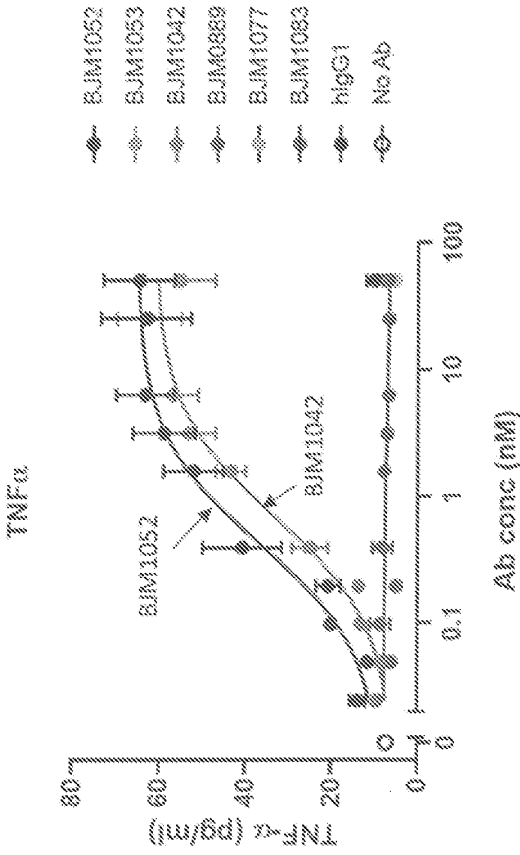


FIG. 19A

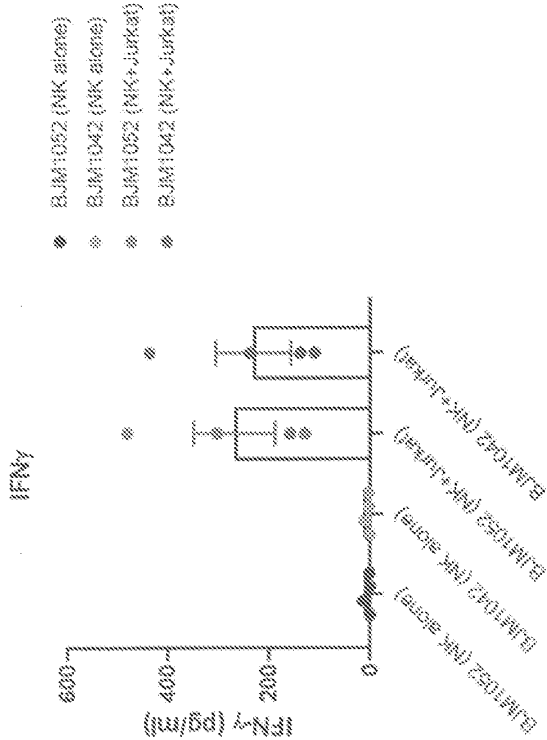


FIG. 19B

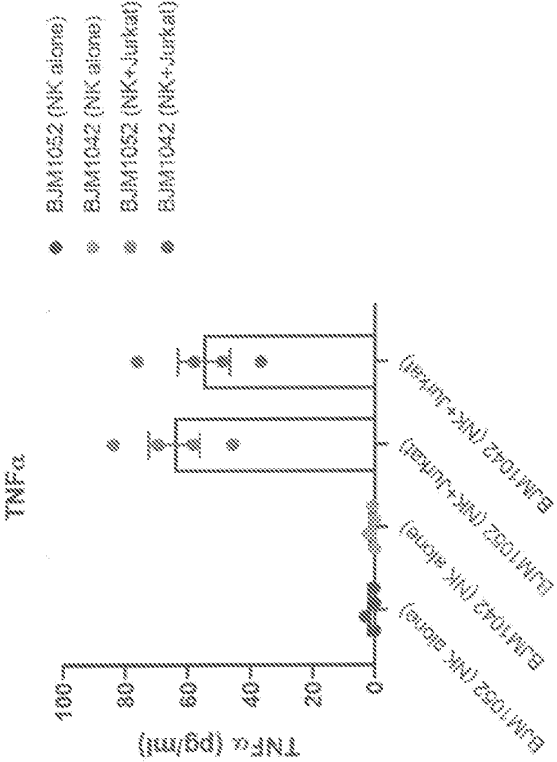


FIG. 20

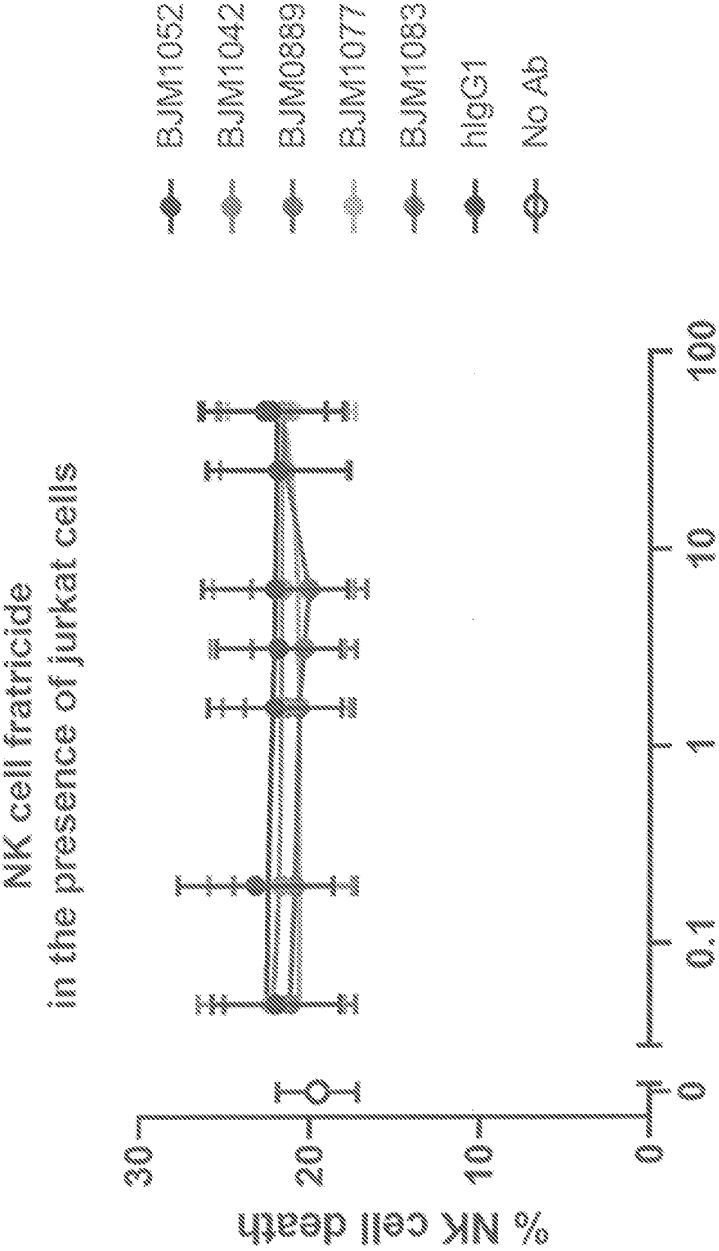


FIG. 21B

BJM0773

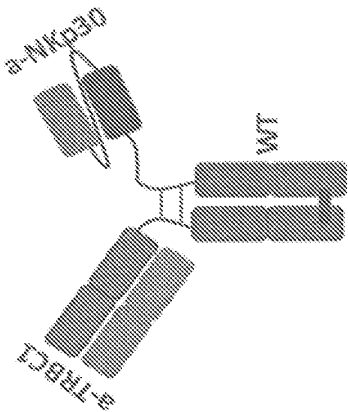


FIG. 21A

BJM0145

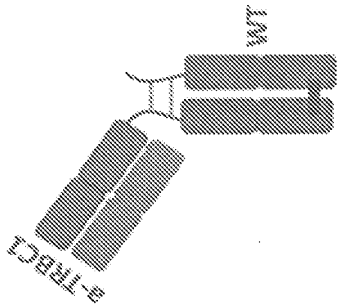


FIG. 22A

PDX3 (TRBC1+) (ALL)
Primary NK : PDX (5:1)

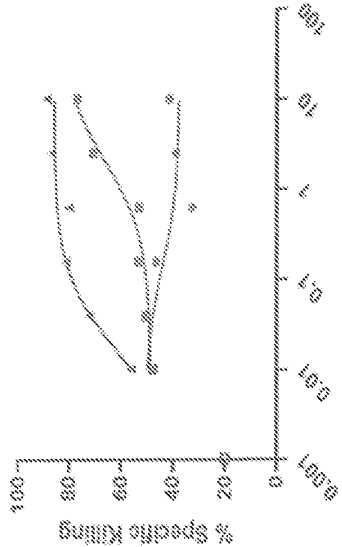


FIG. 22B

PDX3 (TRBC1+) (ALL)
KHYG1 + PDX (5:1)

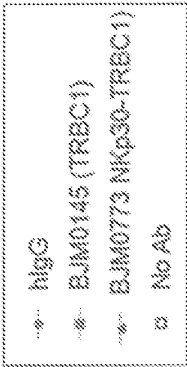
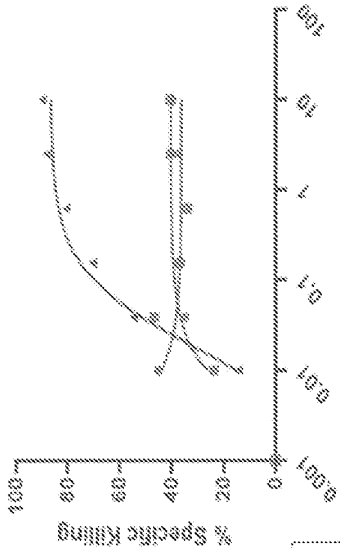


FIG. 22D

PDX6 (TRBC1+) (CTCL)
KHYG1 + PDX (5:1)

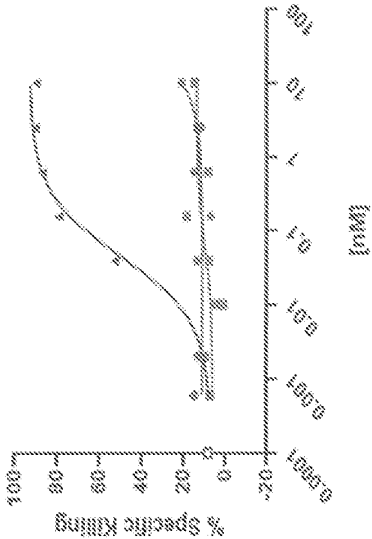


FIG. 22C

PDX6 (TRBC1+) (CTCL)
Primary NK : PDX (5:1)

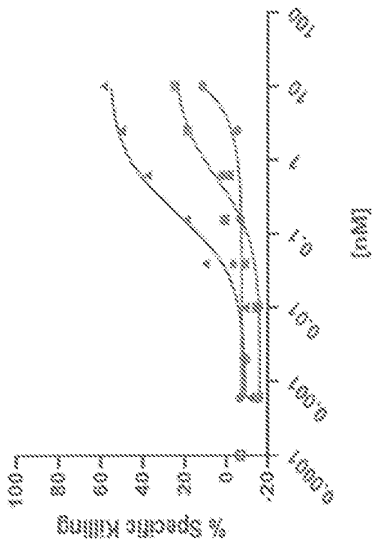


FIG. 23

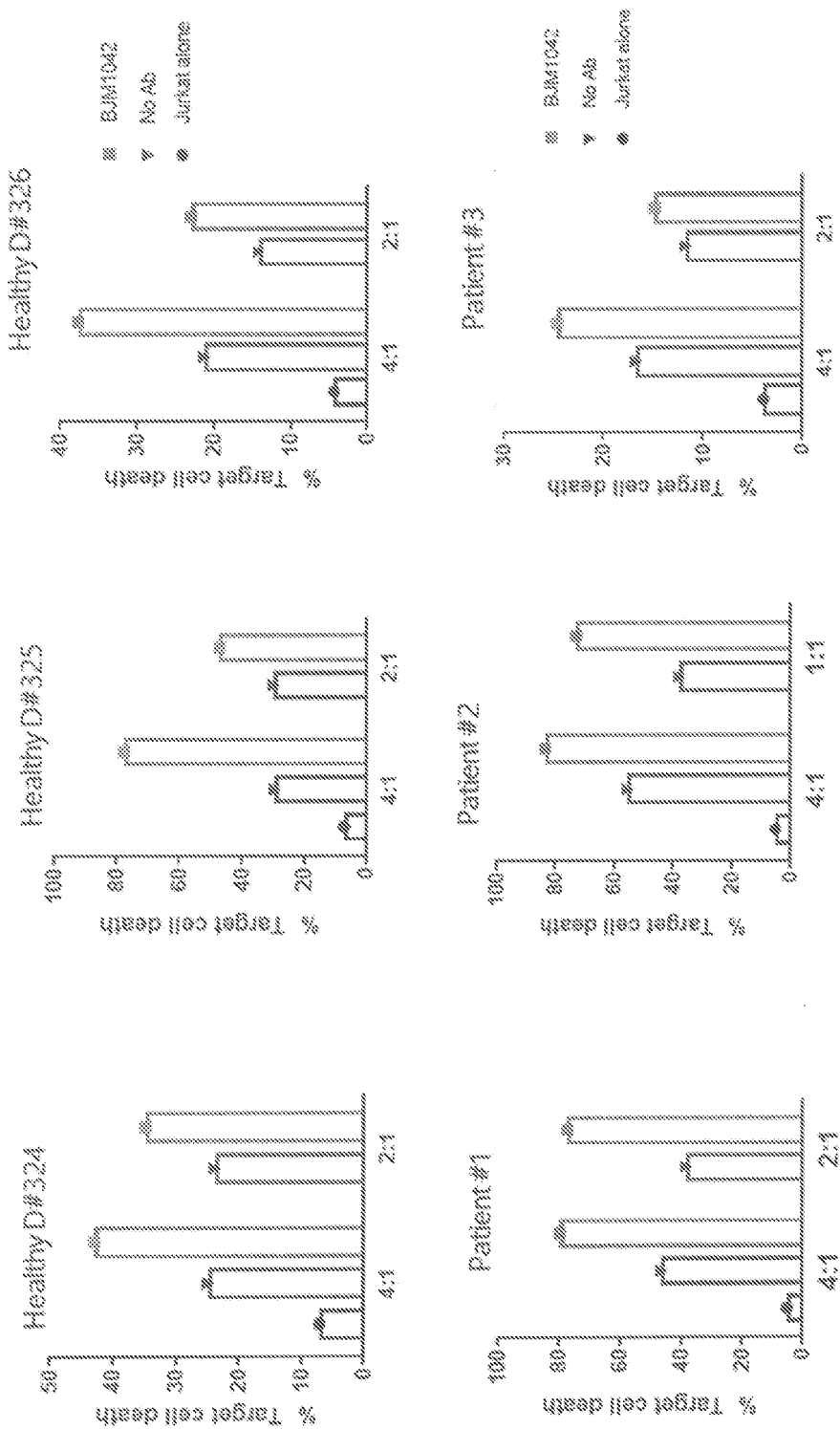


FIG. 24

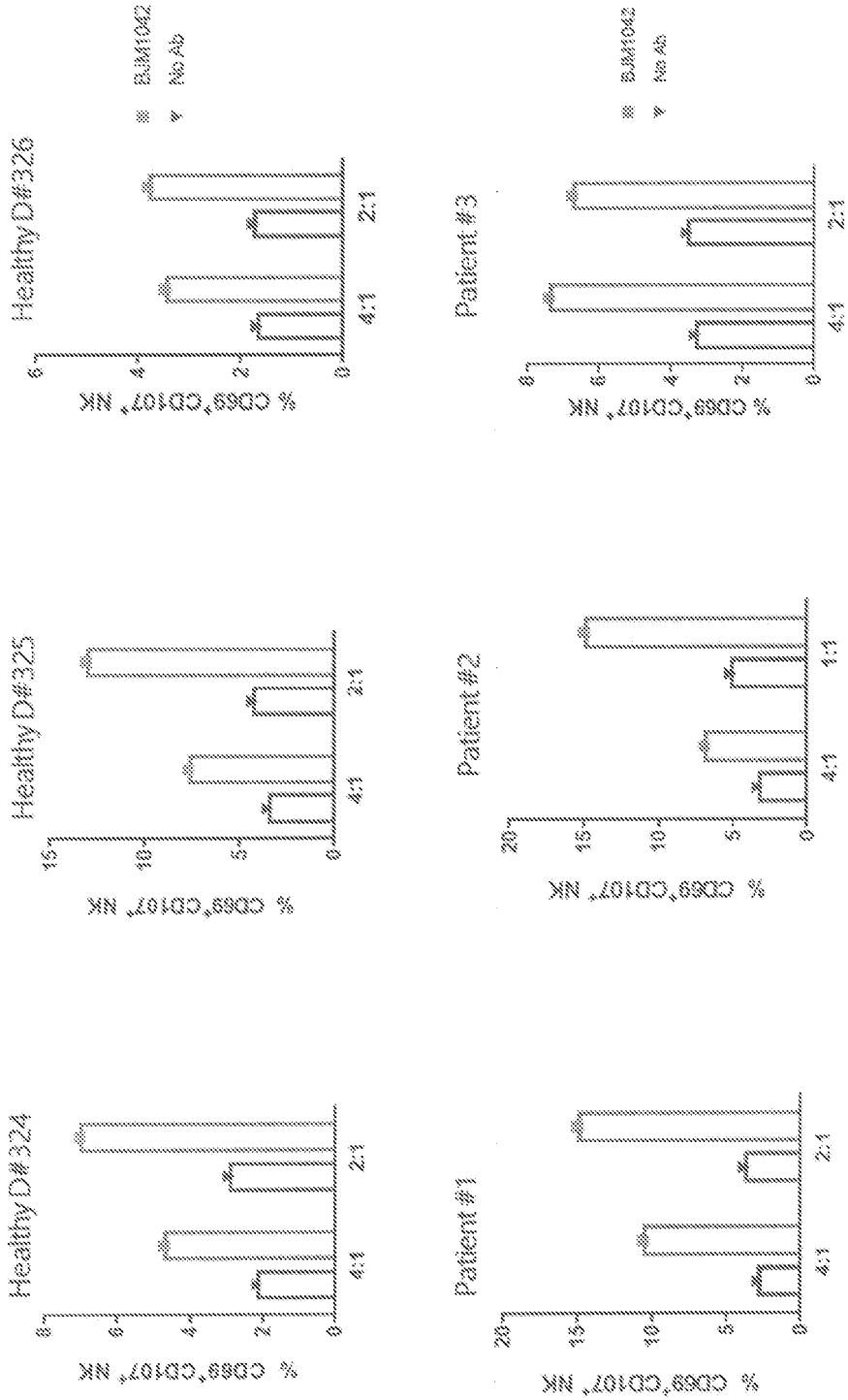


FIG. 25A

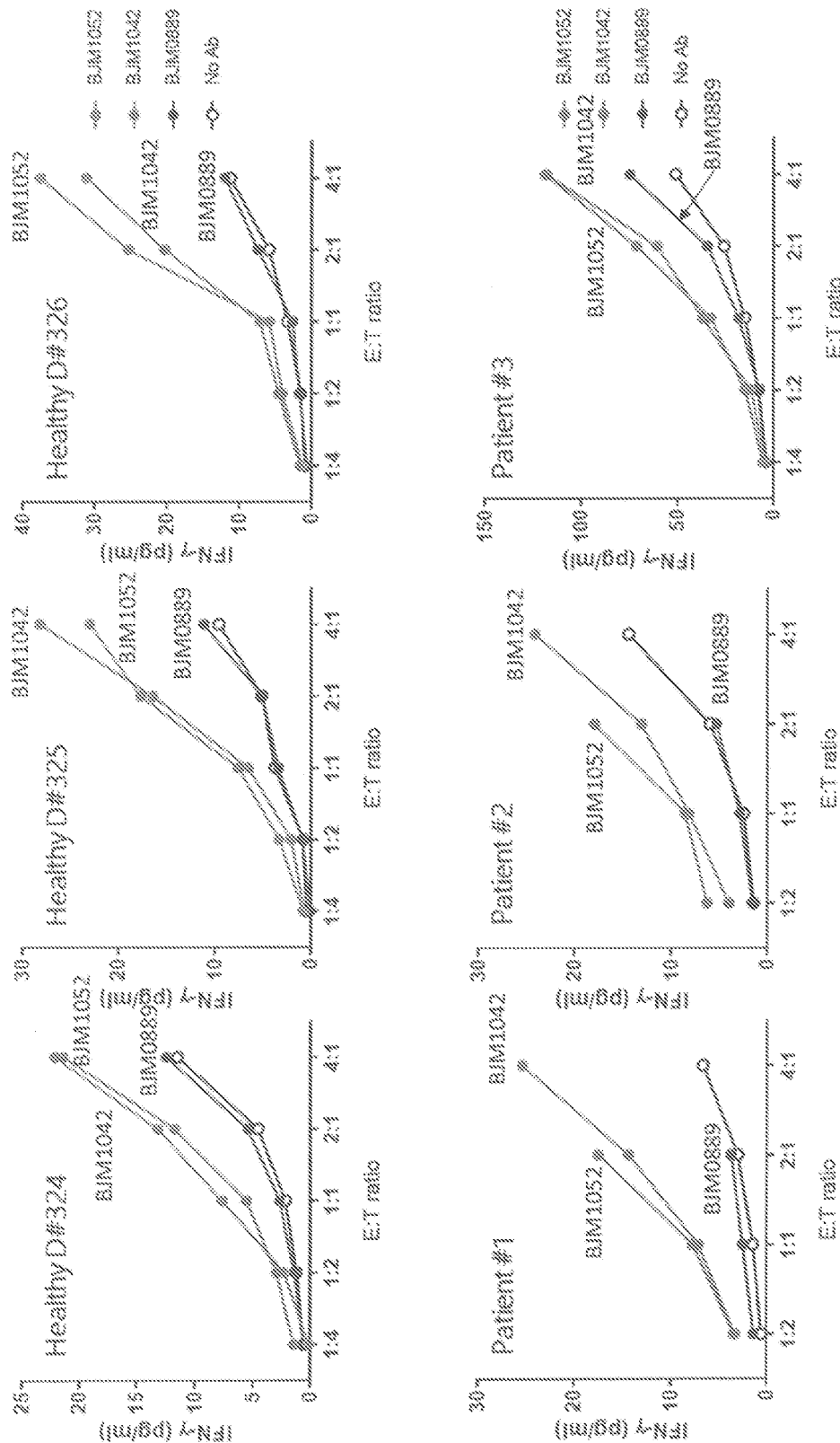


FIG. 25B

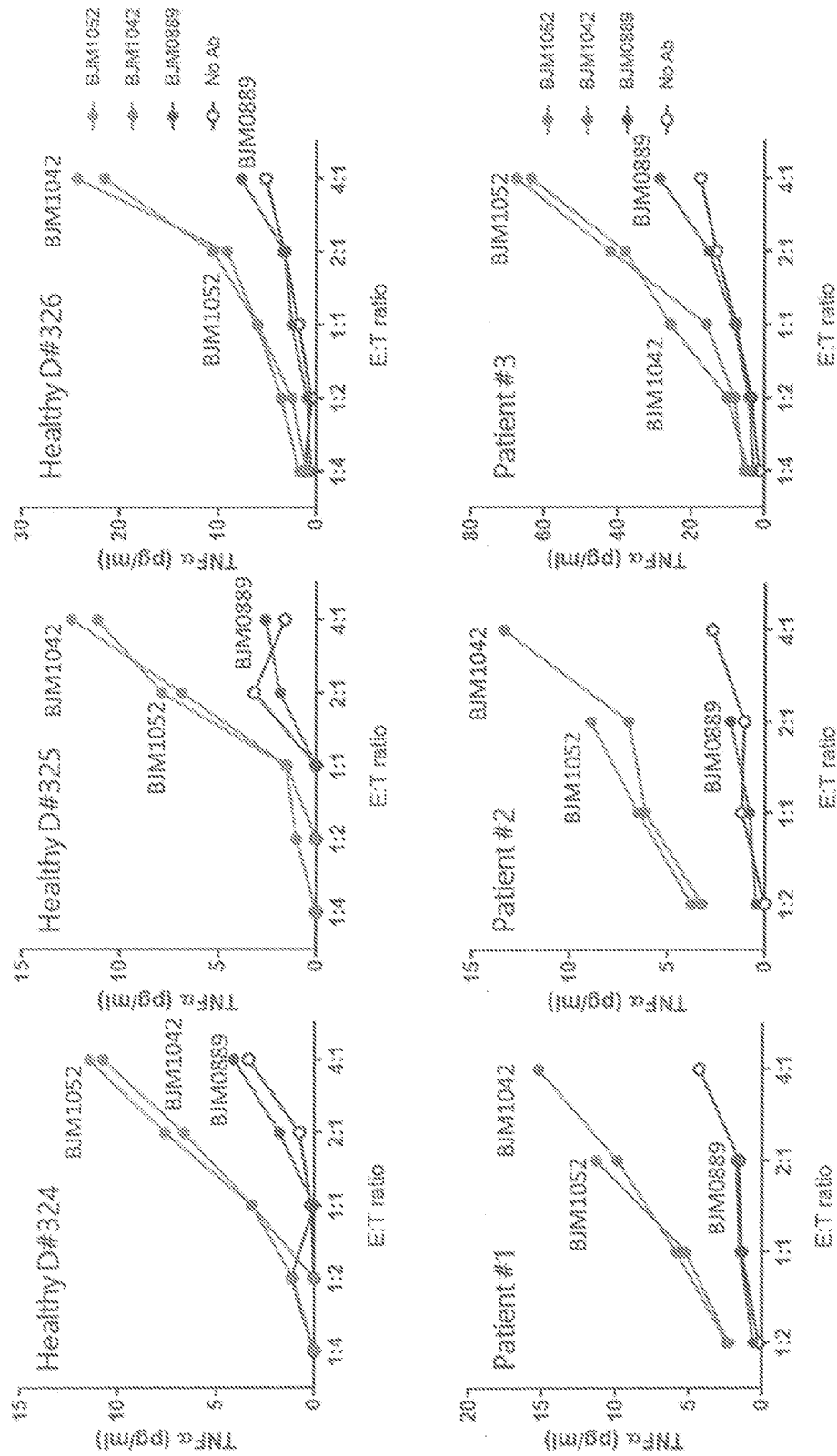


FIG. 26A

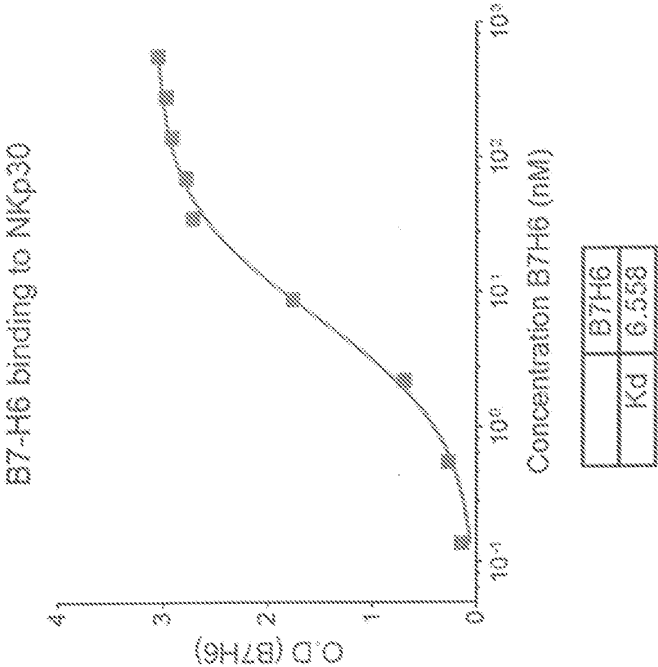


FIG. 26B

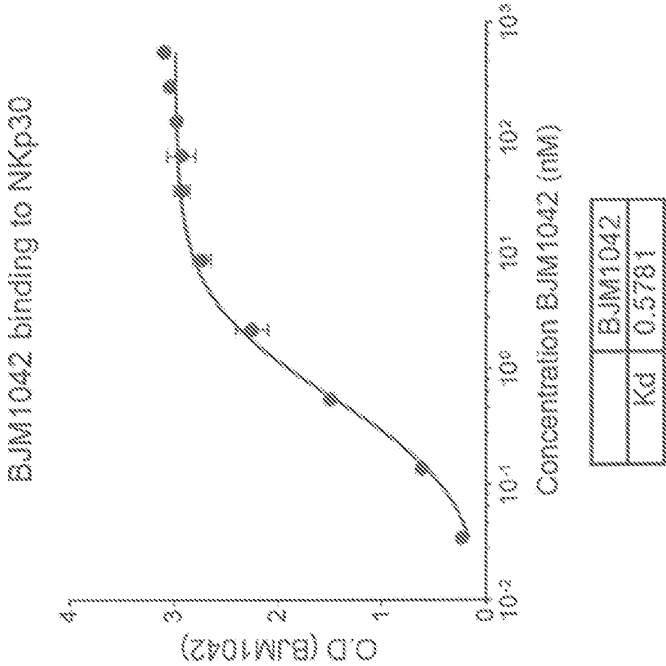


FIG. 26C

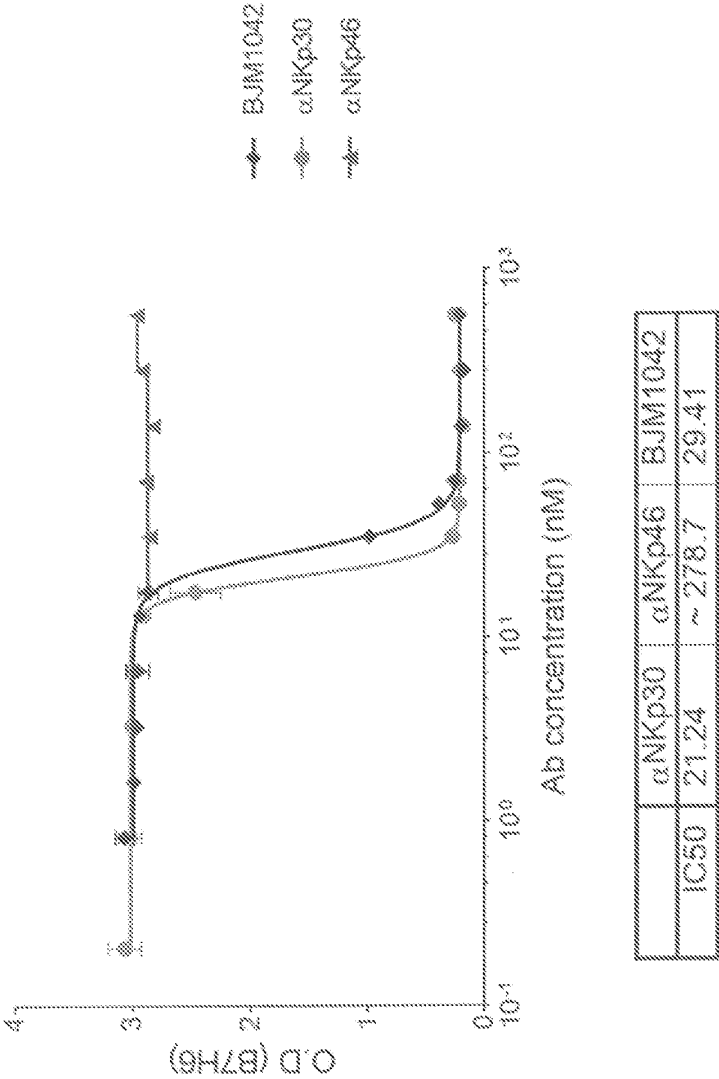


FIG. 27A

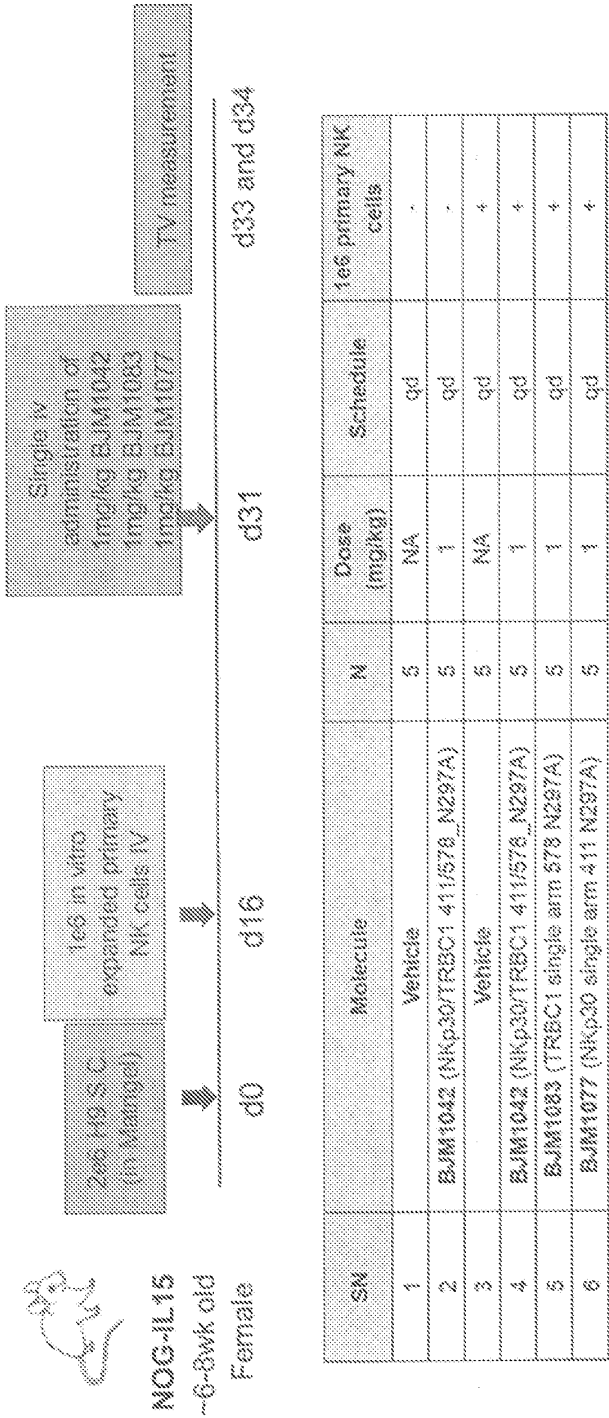


FIG. 27B

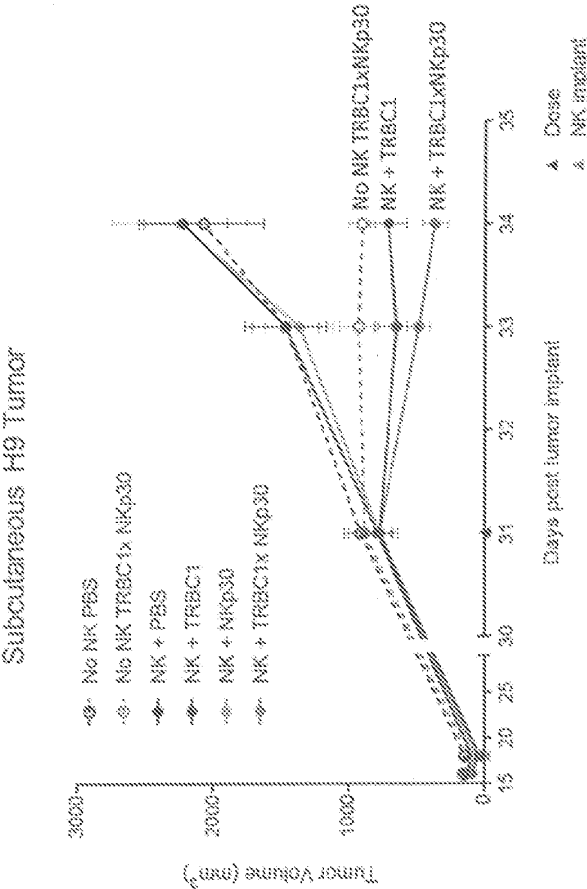


FIG. 27C

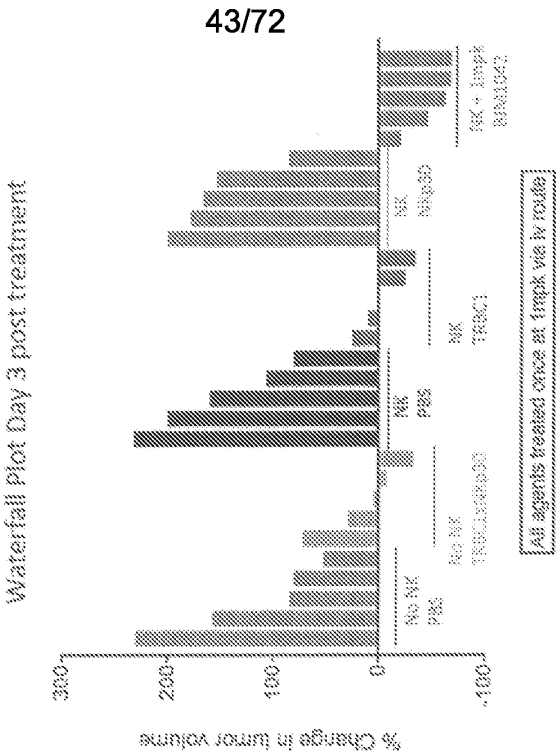


FIG. 28A

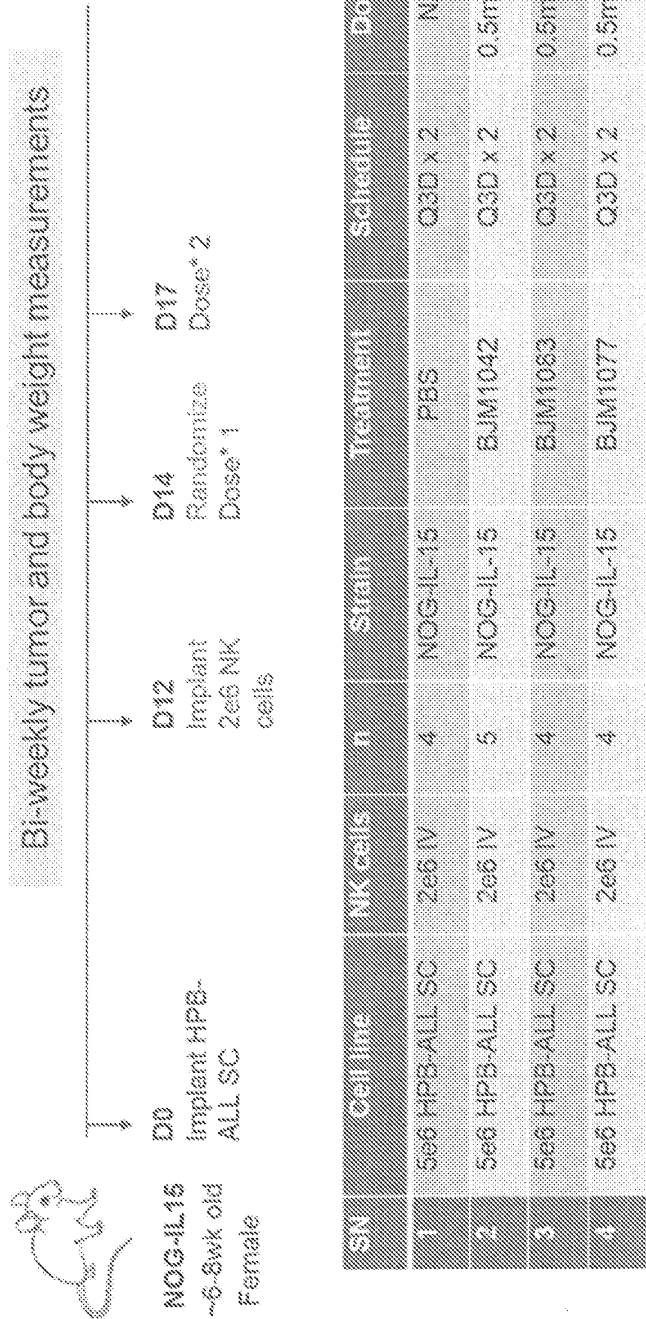
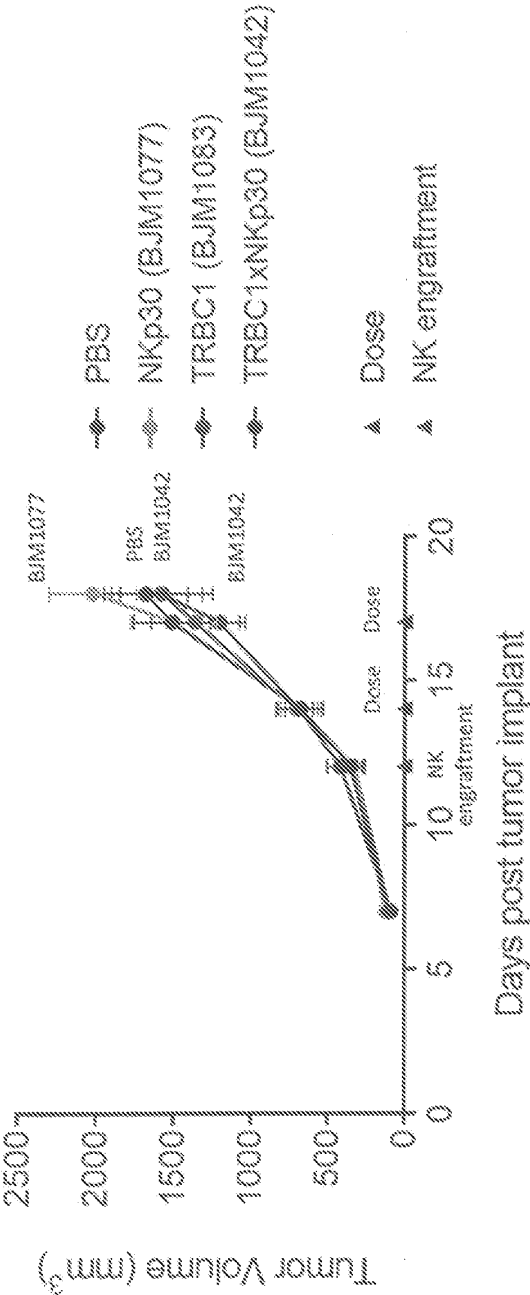
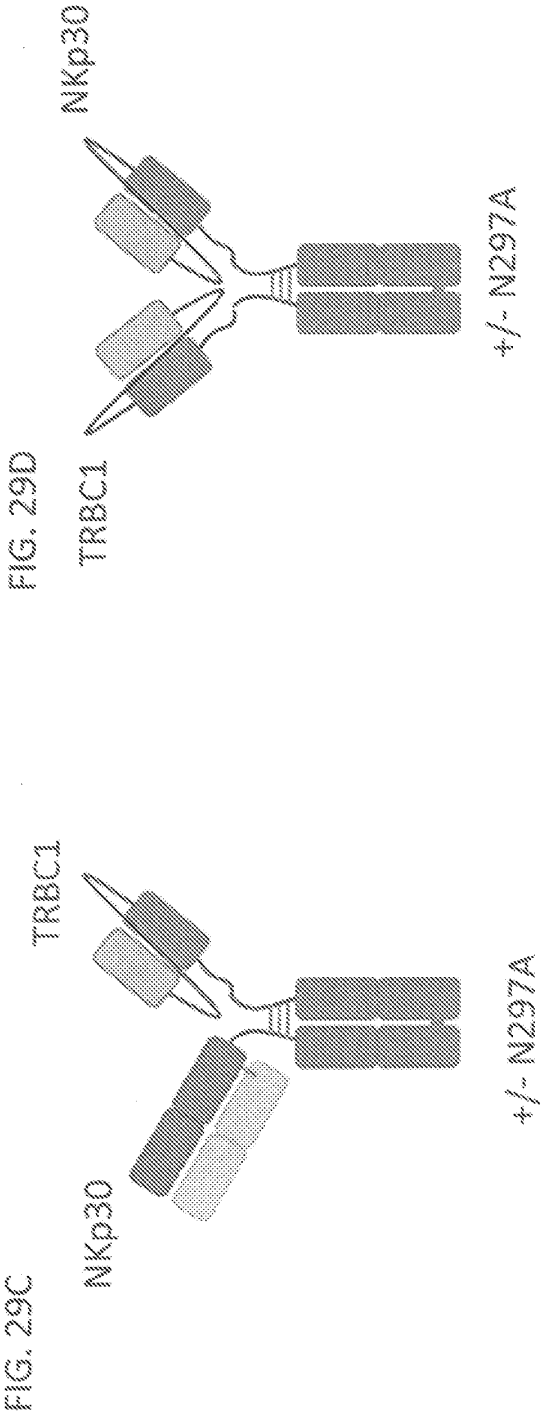
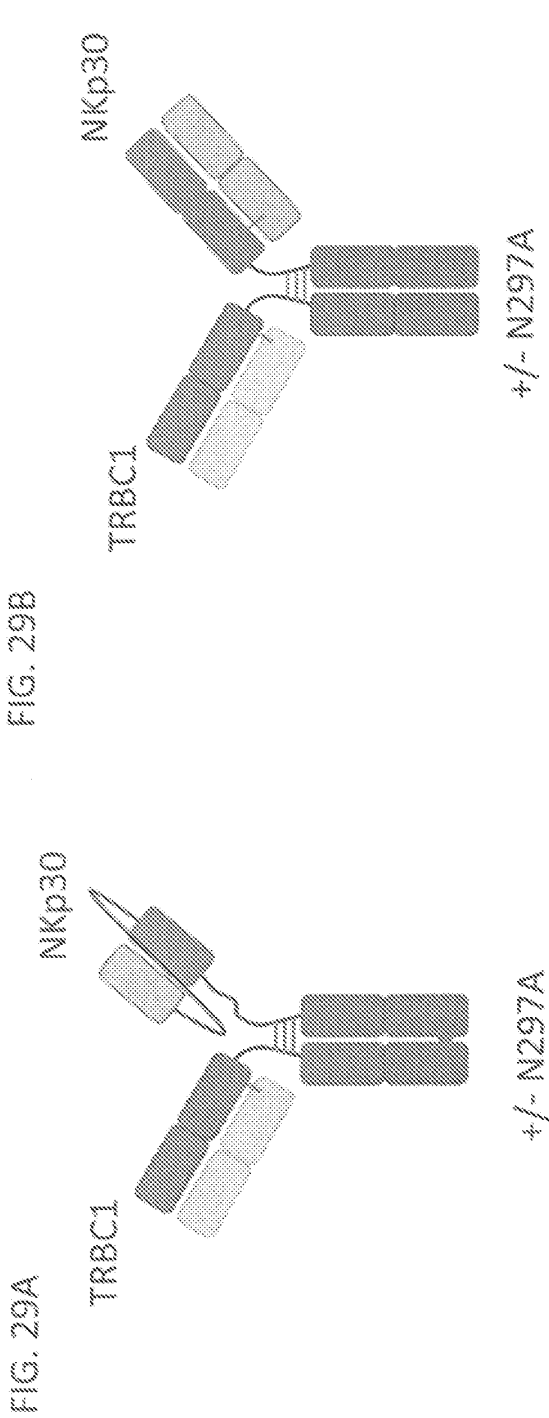
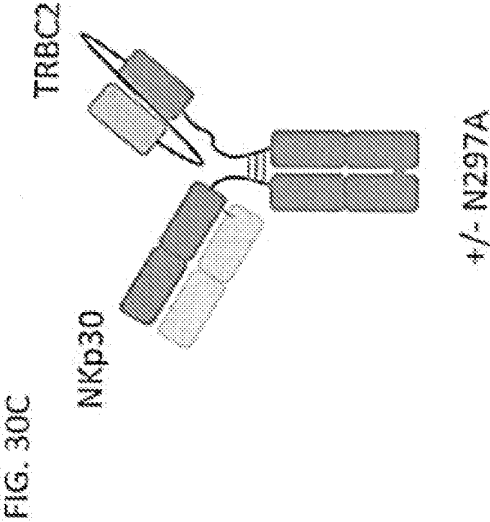
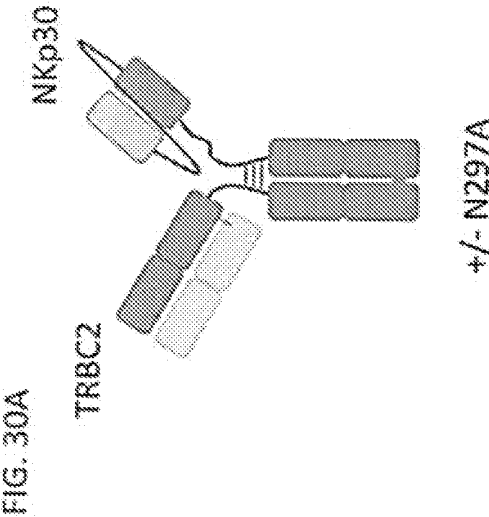
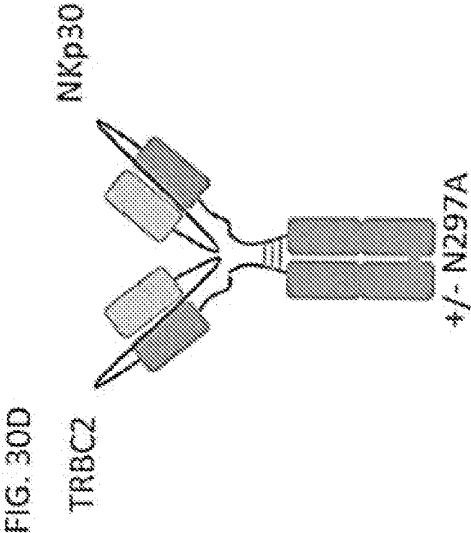
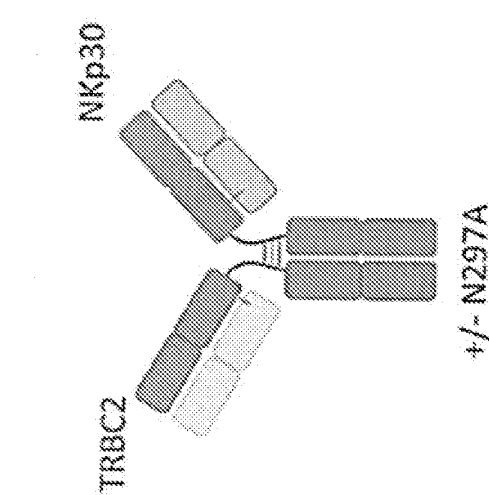


FIG. 28B







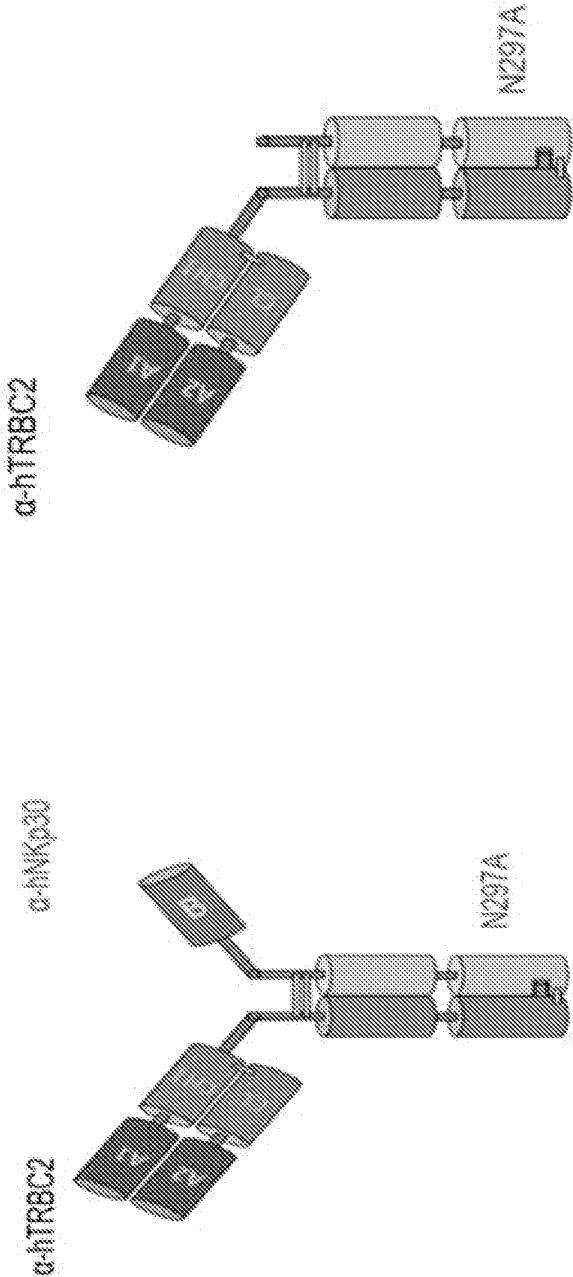


FIG. 31B

FIG. 31A

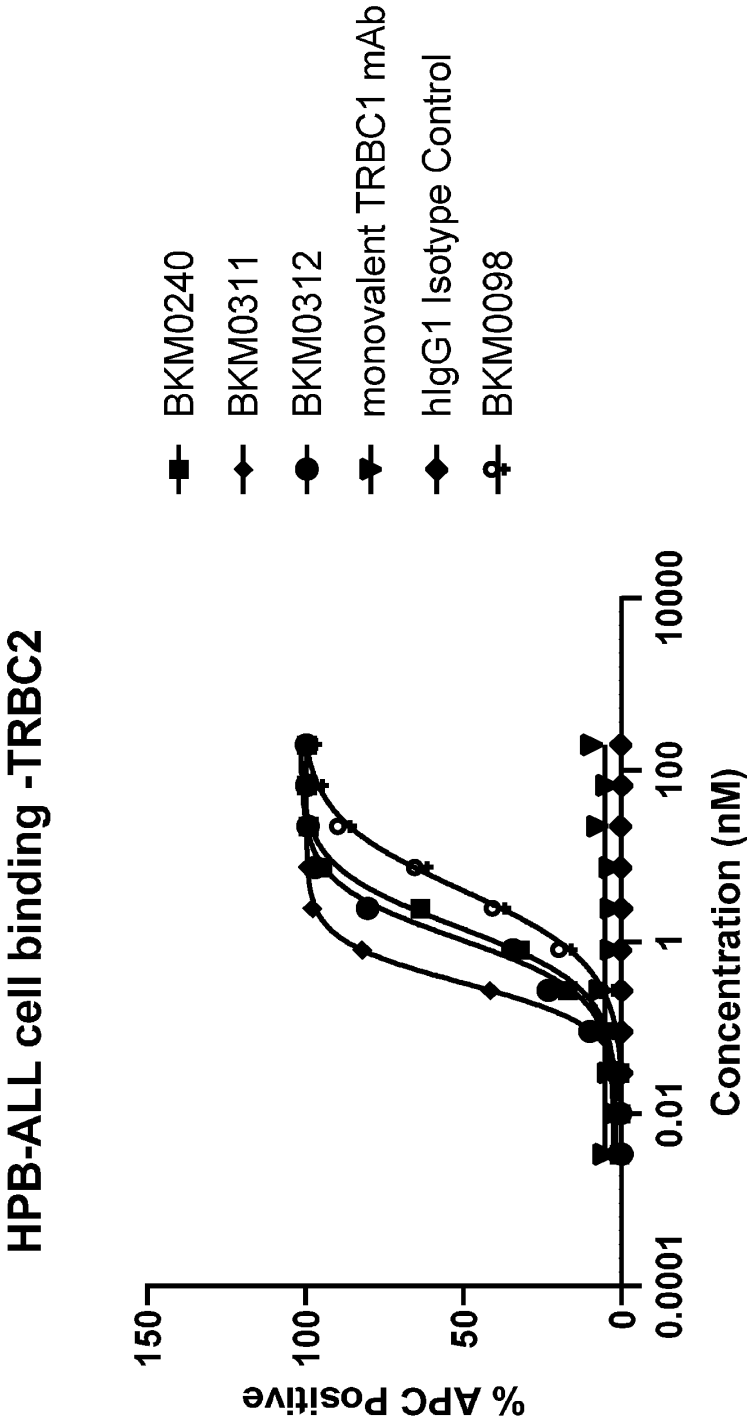


FIG. 32A

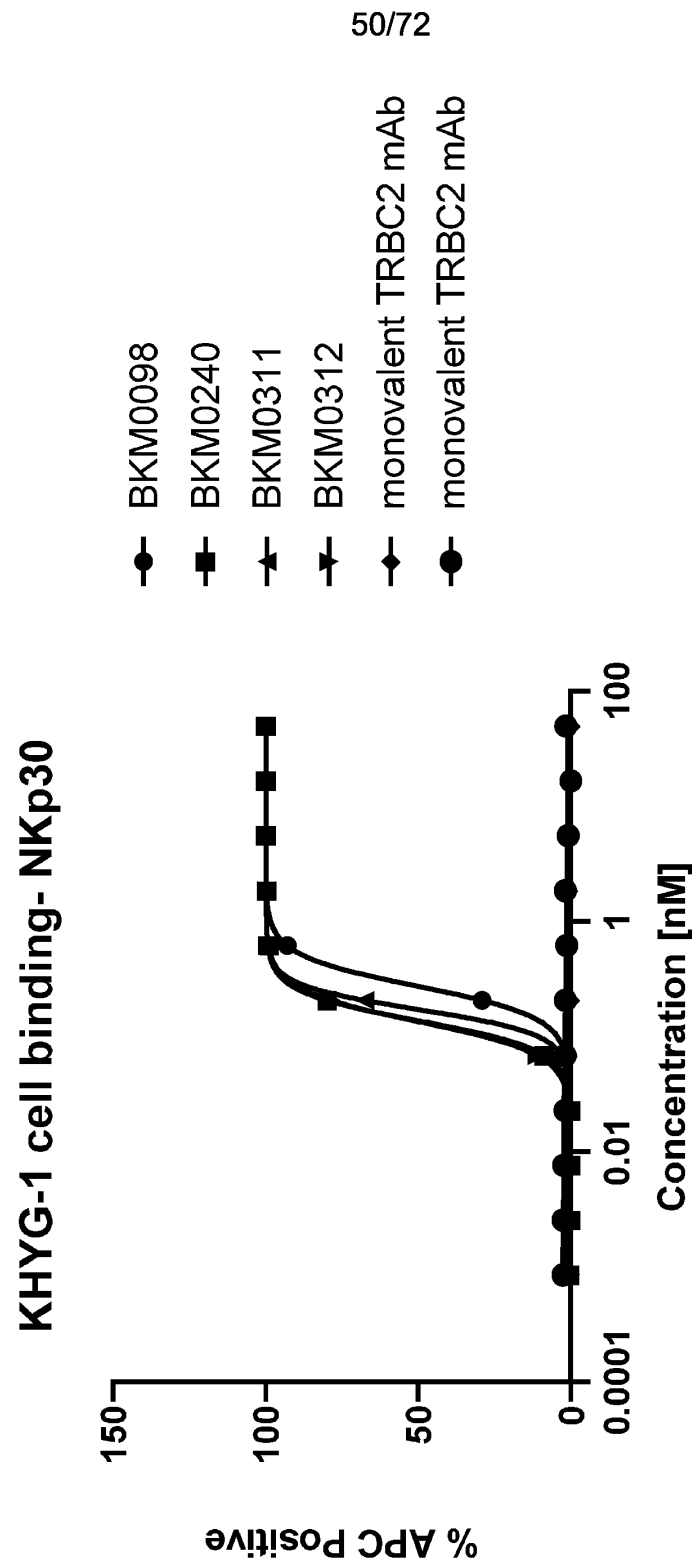


FIG. 32B

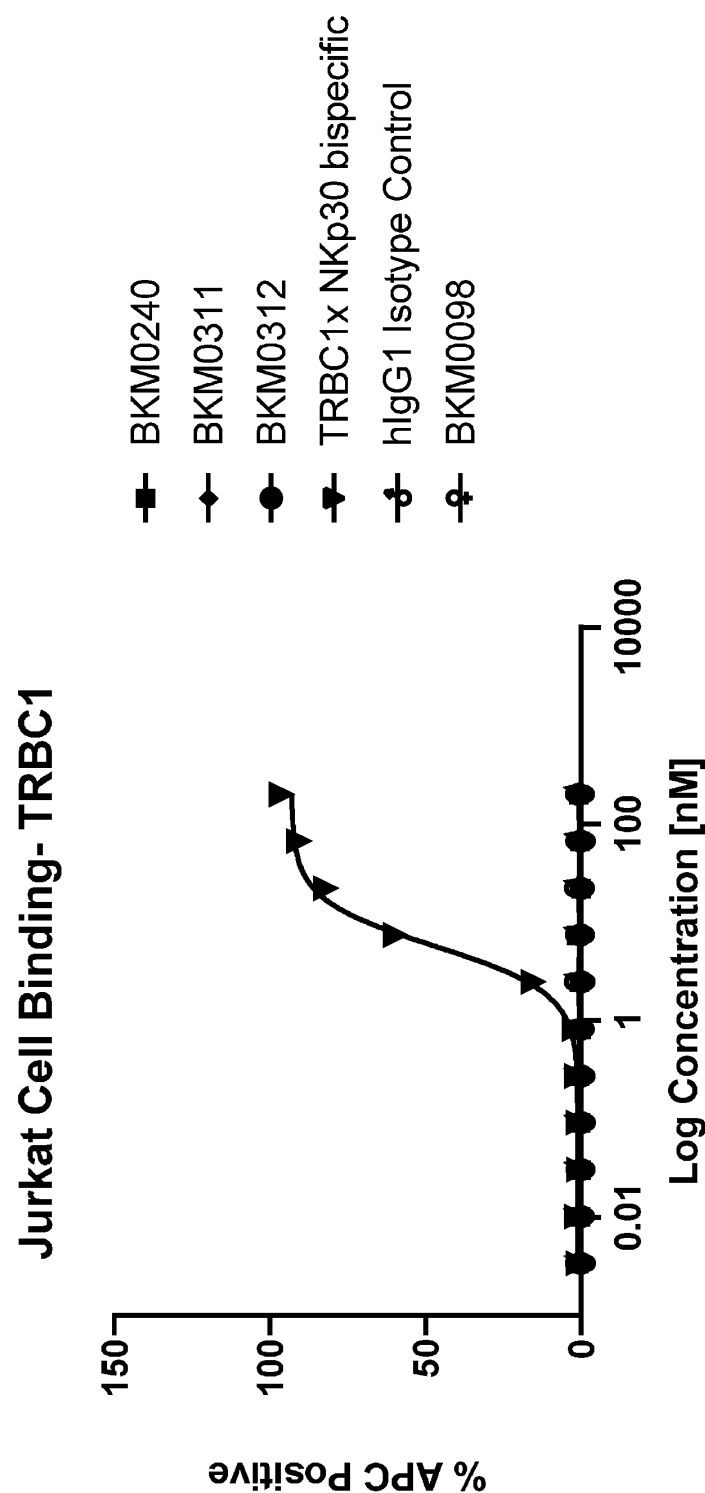
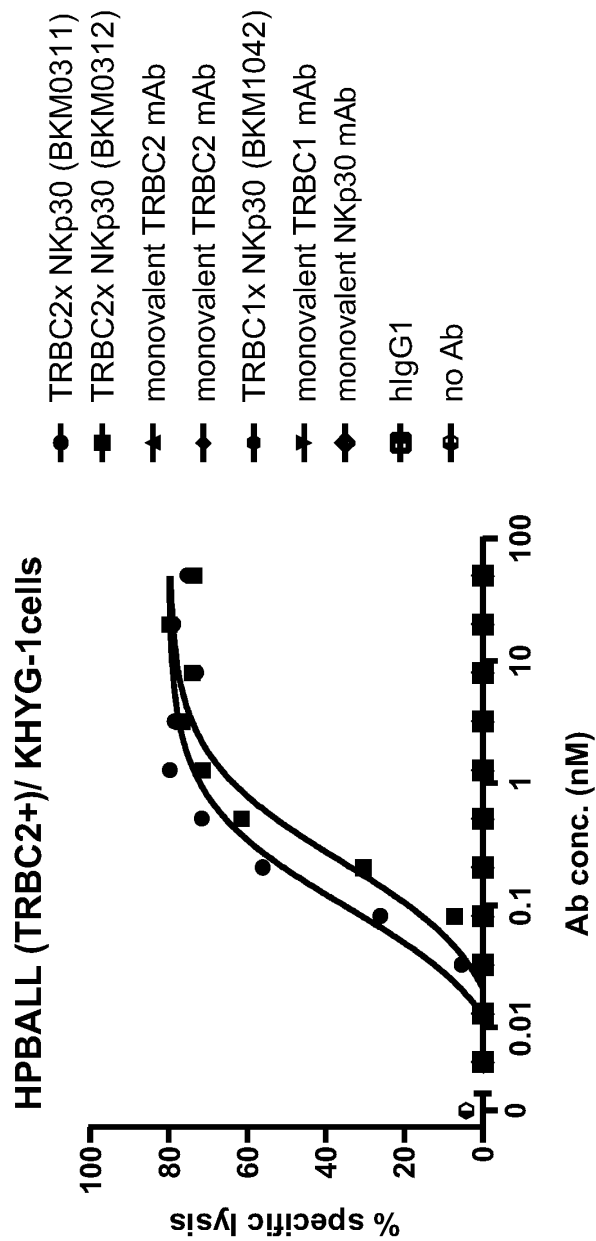


FIG. 32C



	aNKp30xTRBC2 (0311)	aNKp30xTRBC2 (0312)
EC50	0.09821	0.2324

FIG. 33A

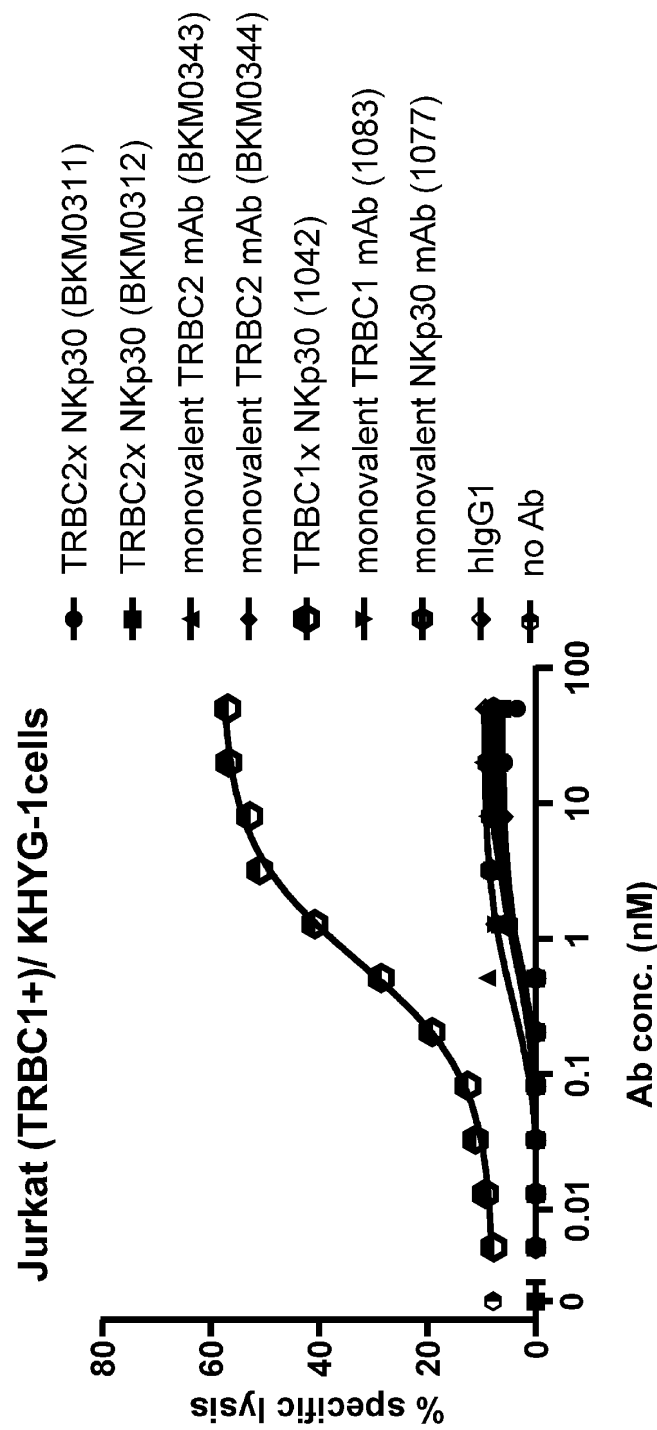


FIG. 33B

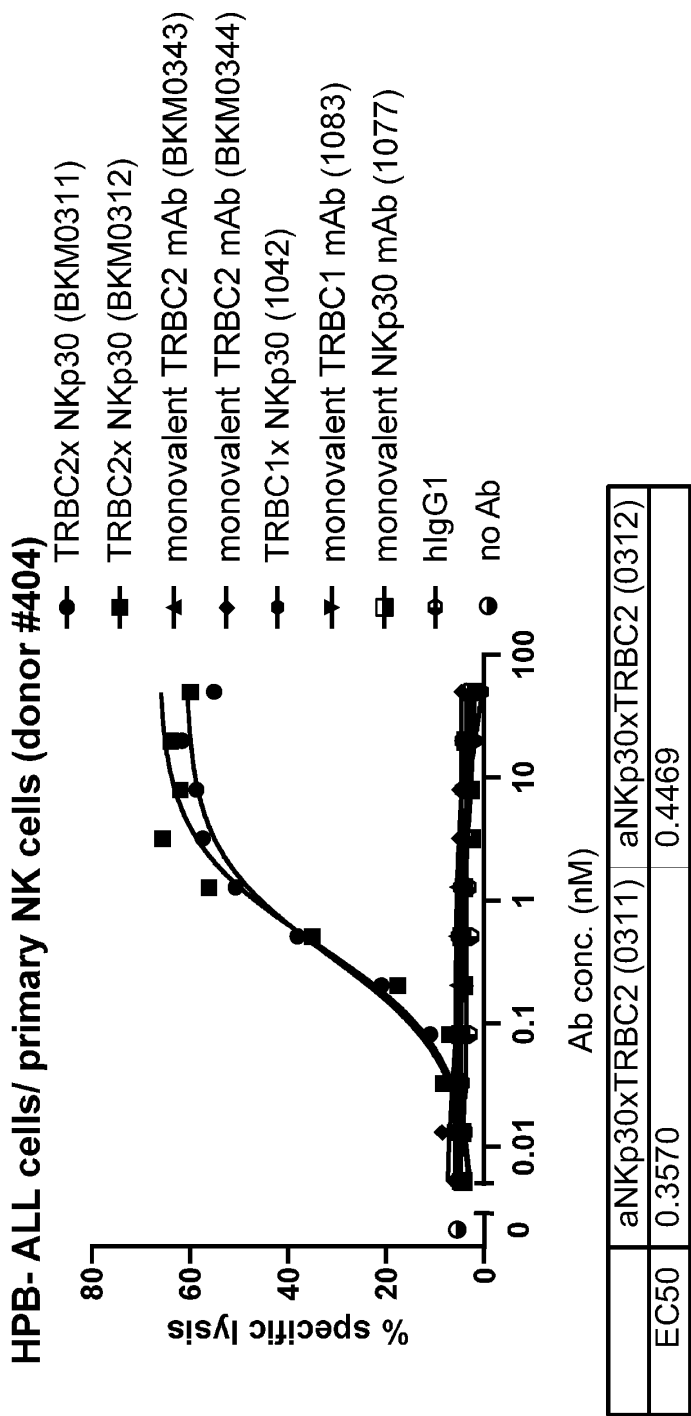


FIG. 33C

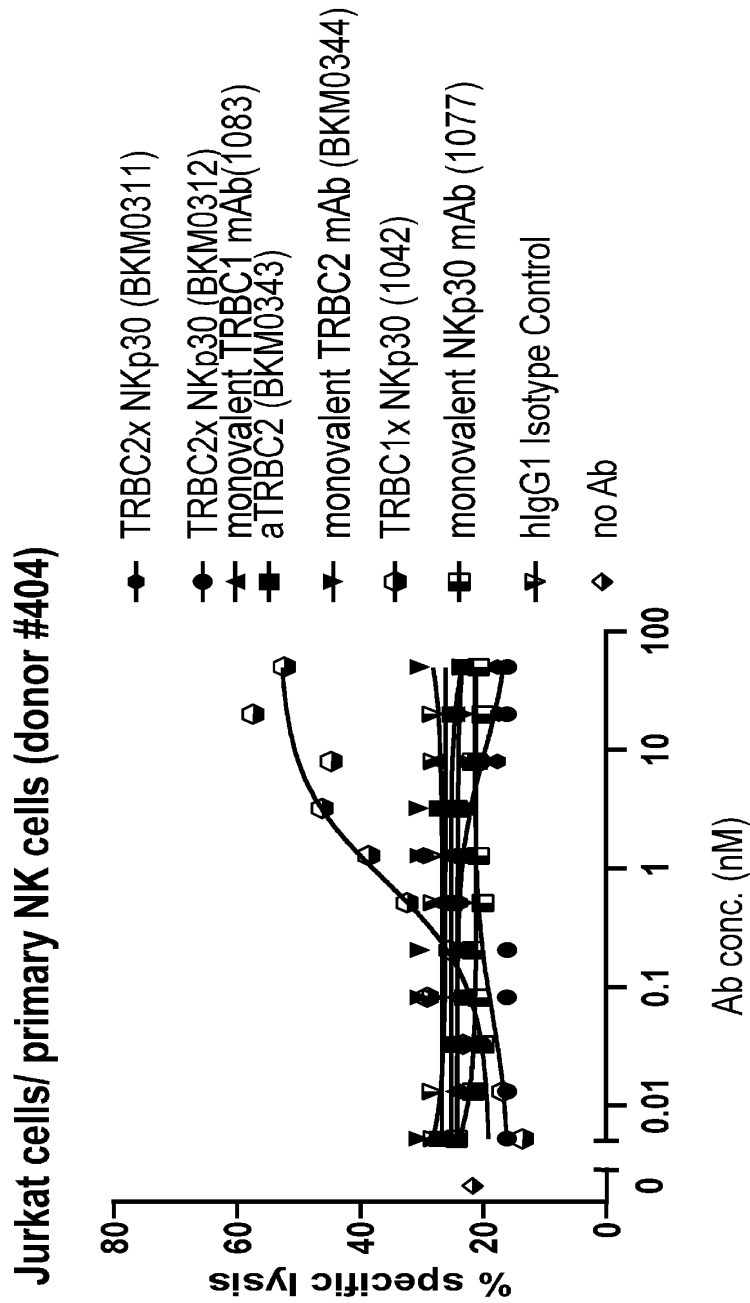


FIG. 33D

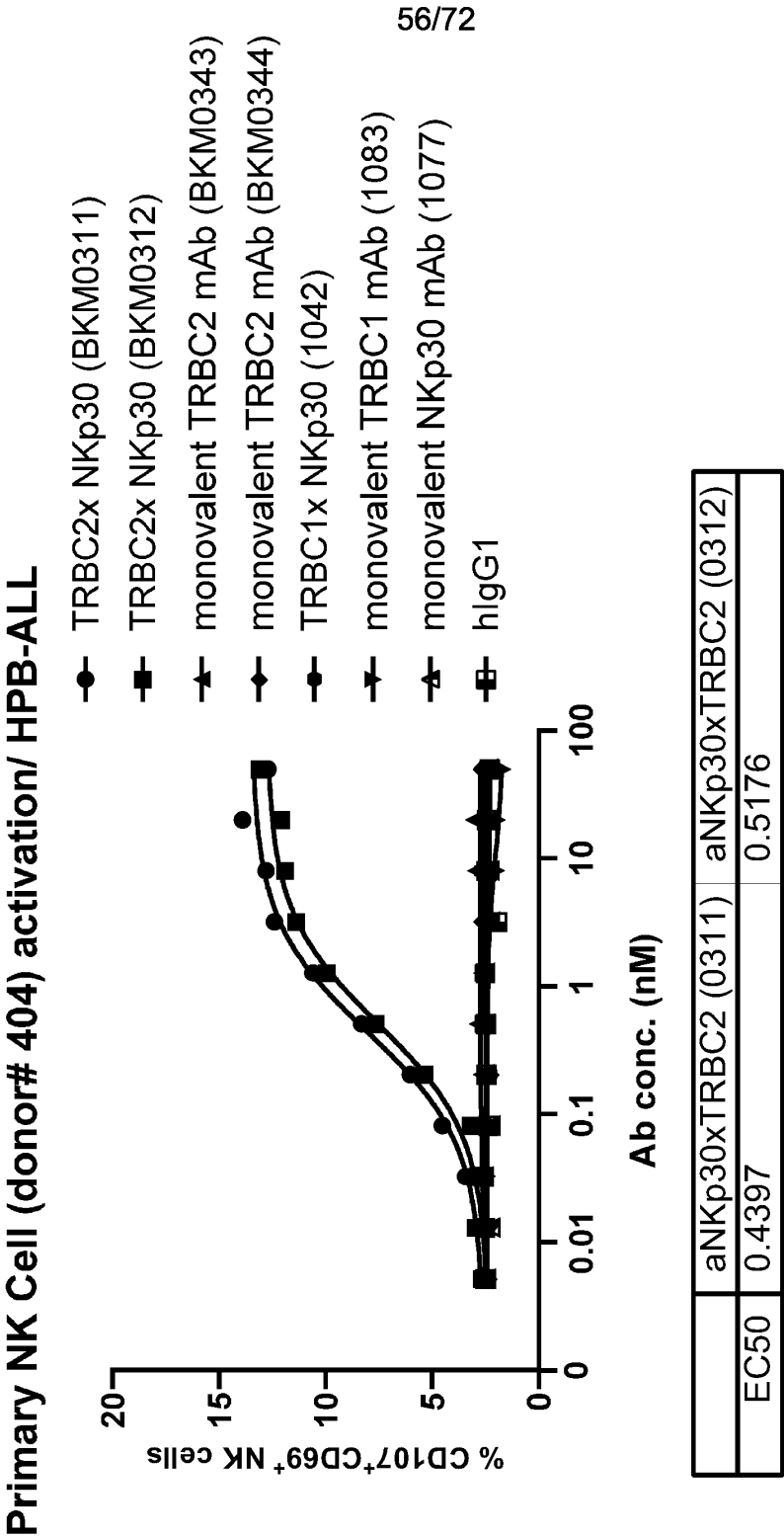


FIG. 34A

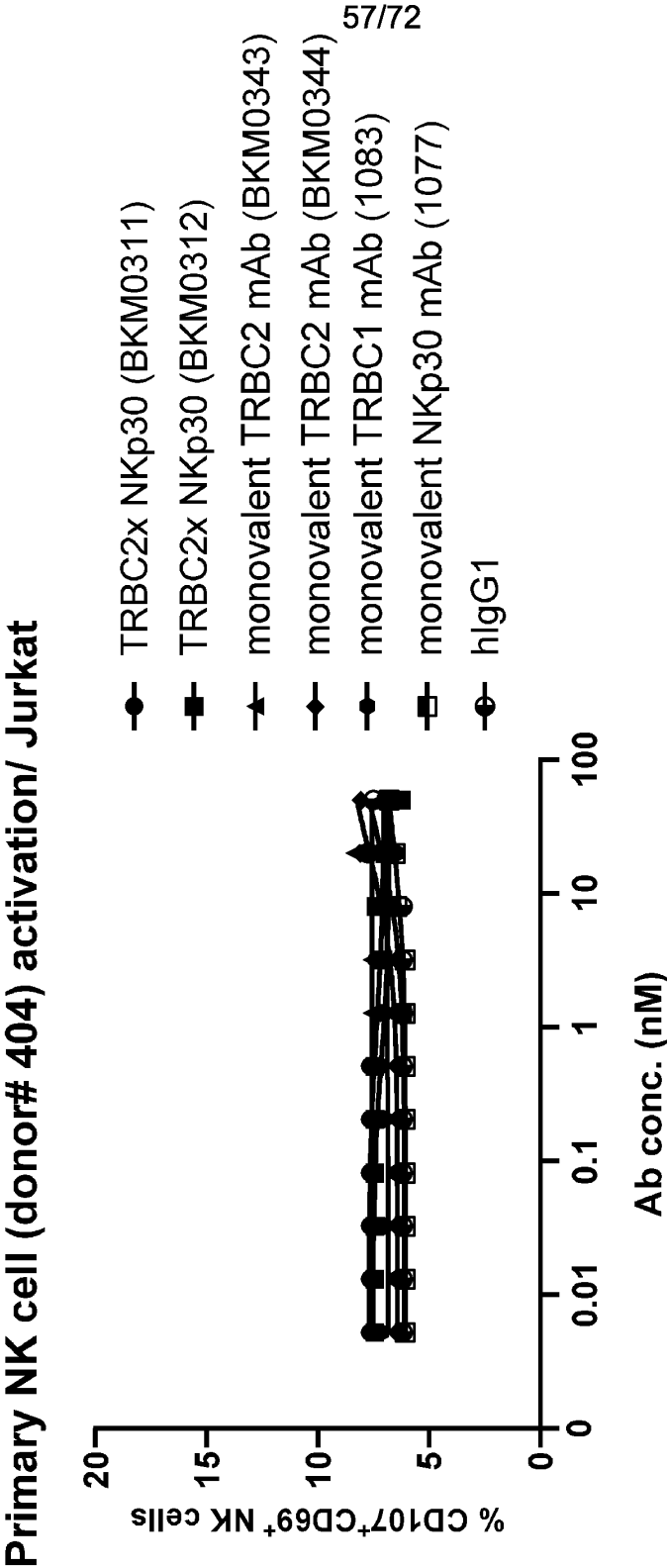


FIG. 34B

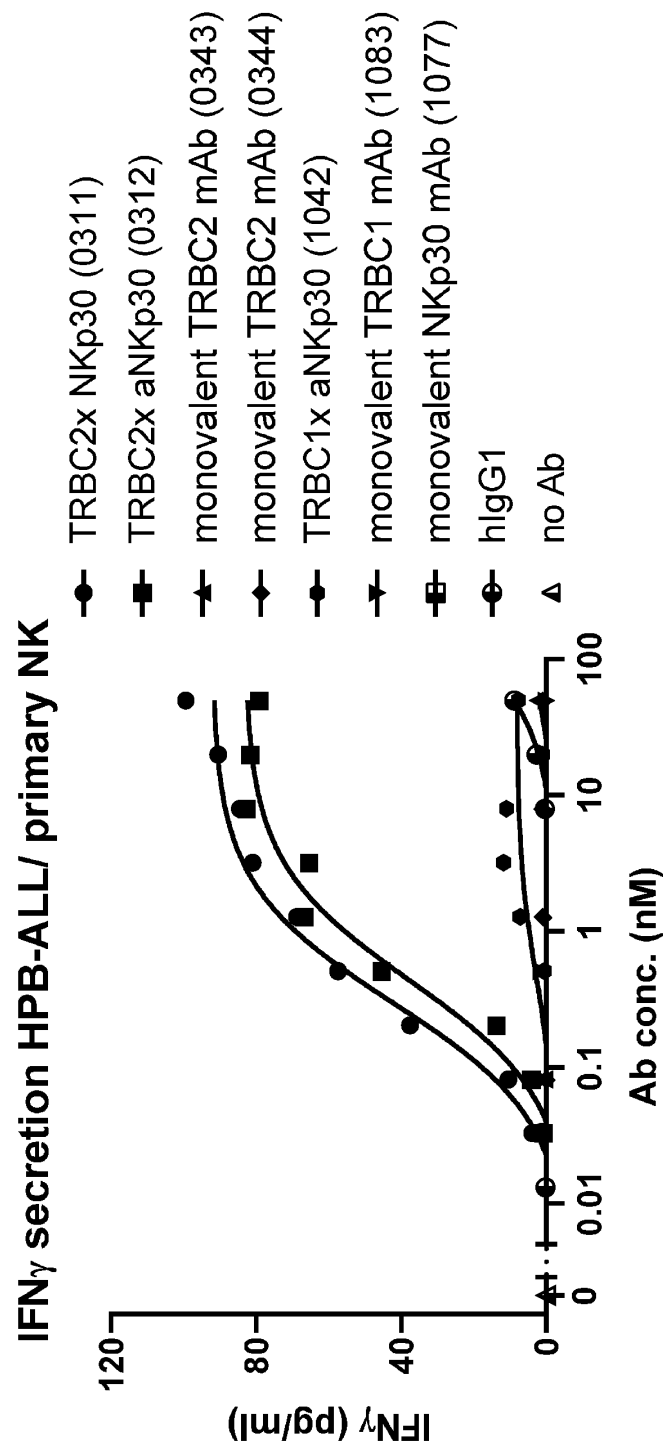


FIG. 35A

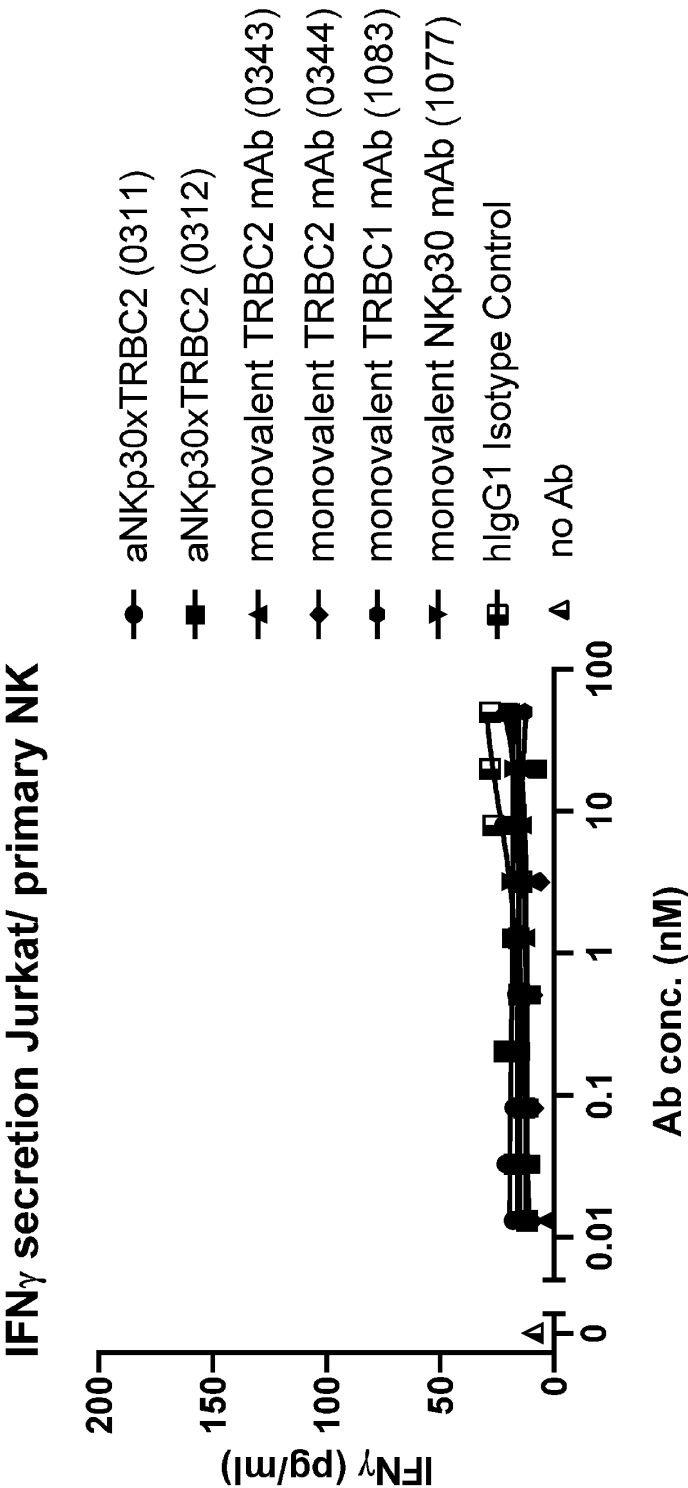


FIG. 35B

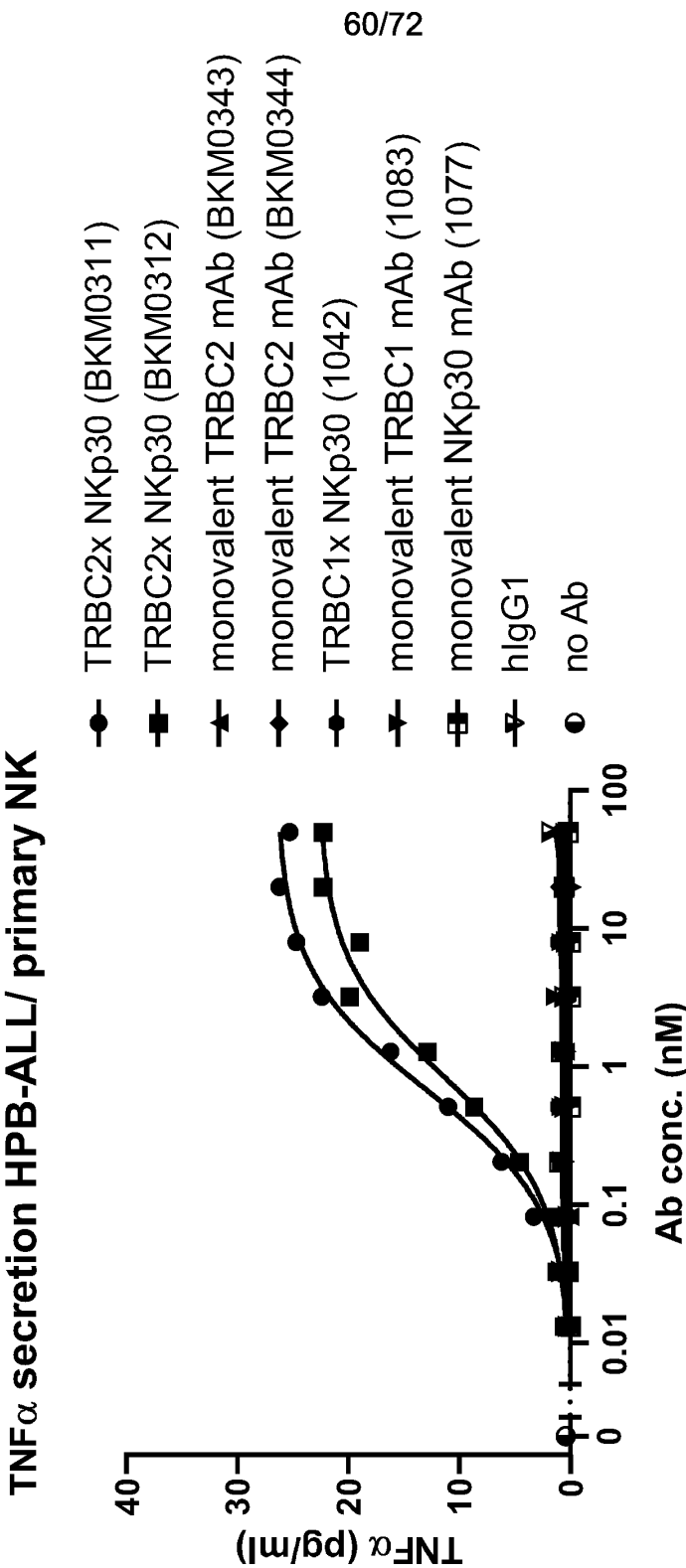


FIG. 35C

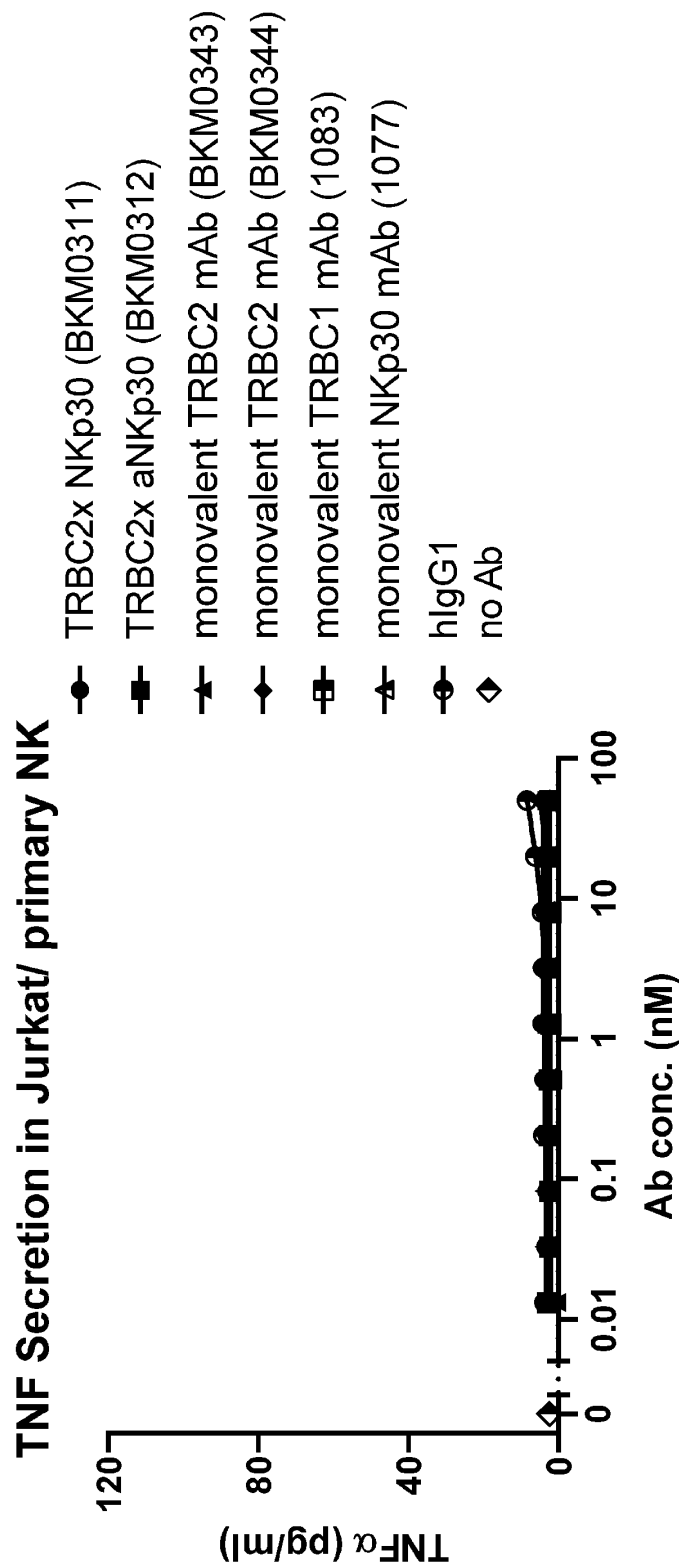


FIG. 35D

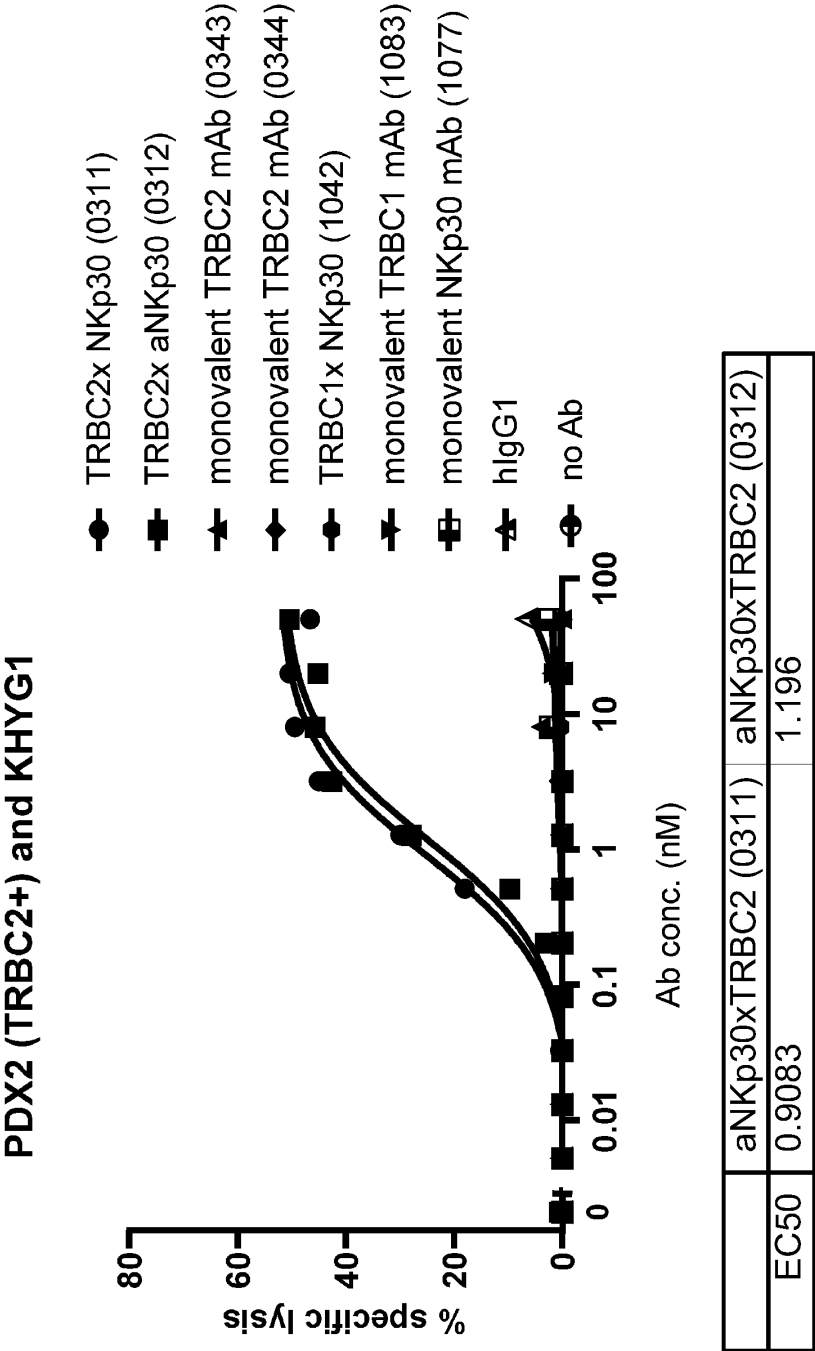


FIG. 36A

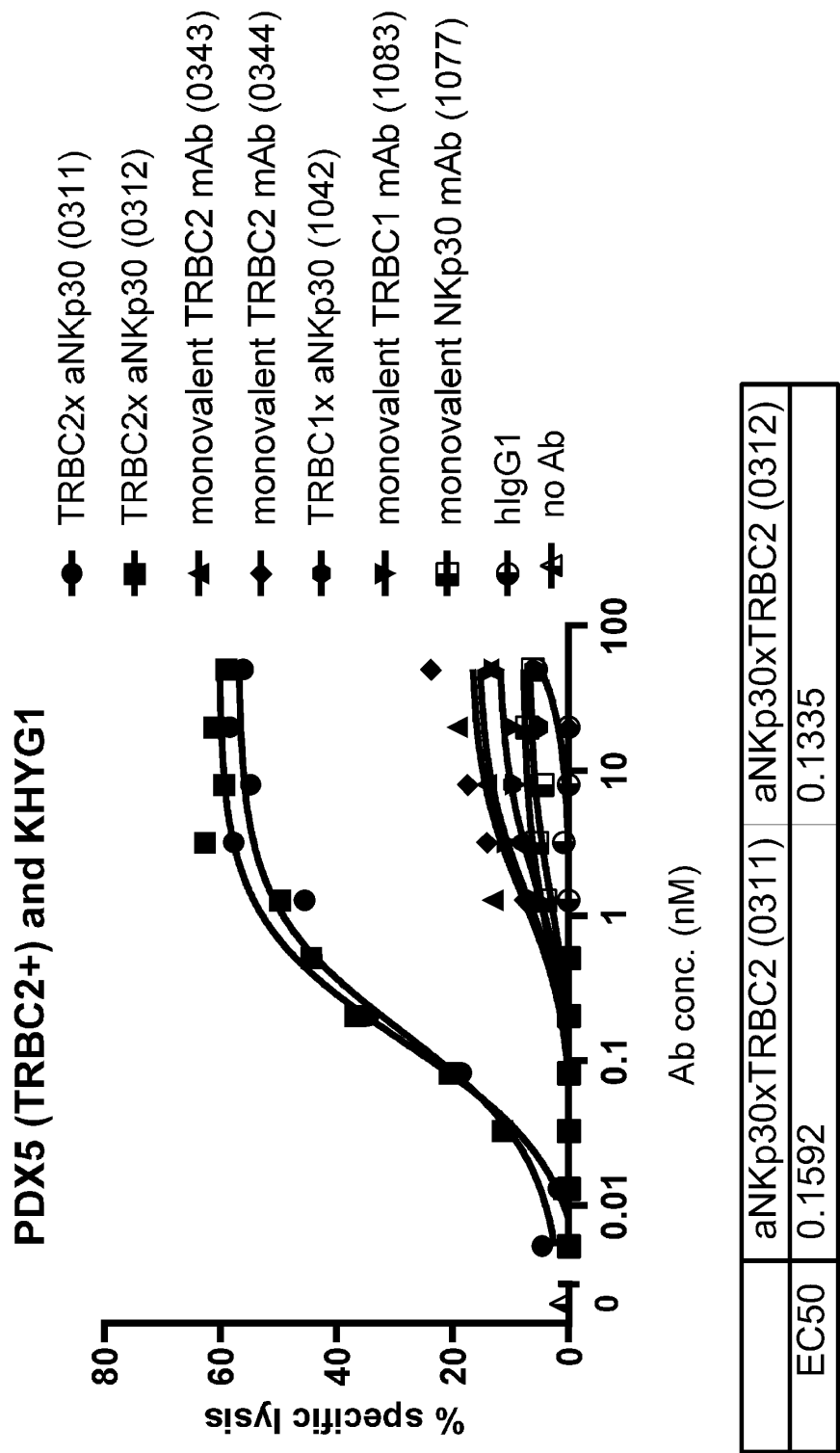


FIG. 36B

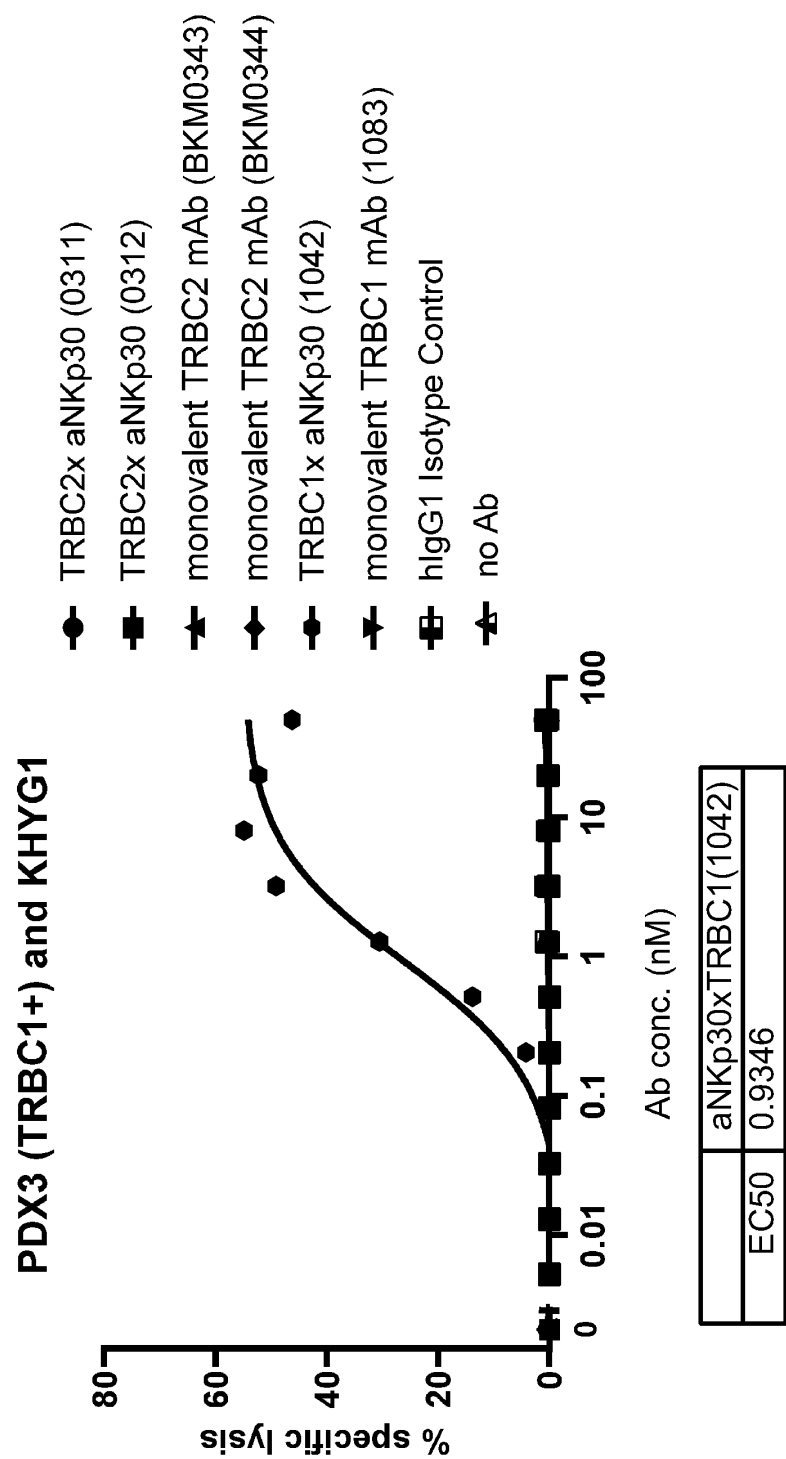


FIG. 36C

TRBC1+ or TRBC2+ T cell populations at day4 of treatment

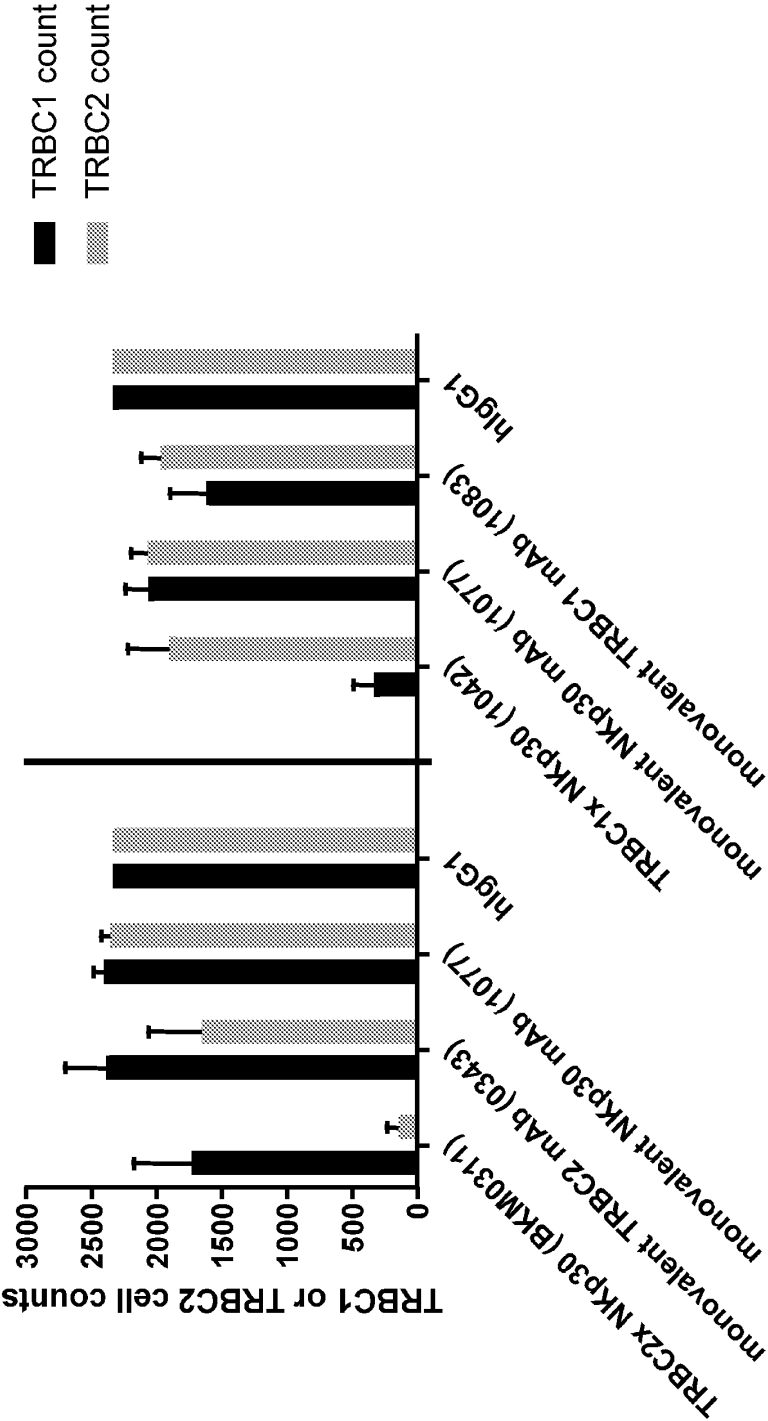


FIG. 37

Selective depletion of TRBC1+ vs TRBC2+ Tcells in human PBMCs in vivo

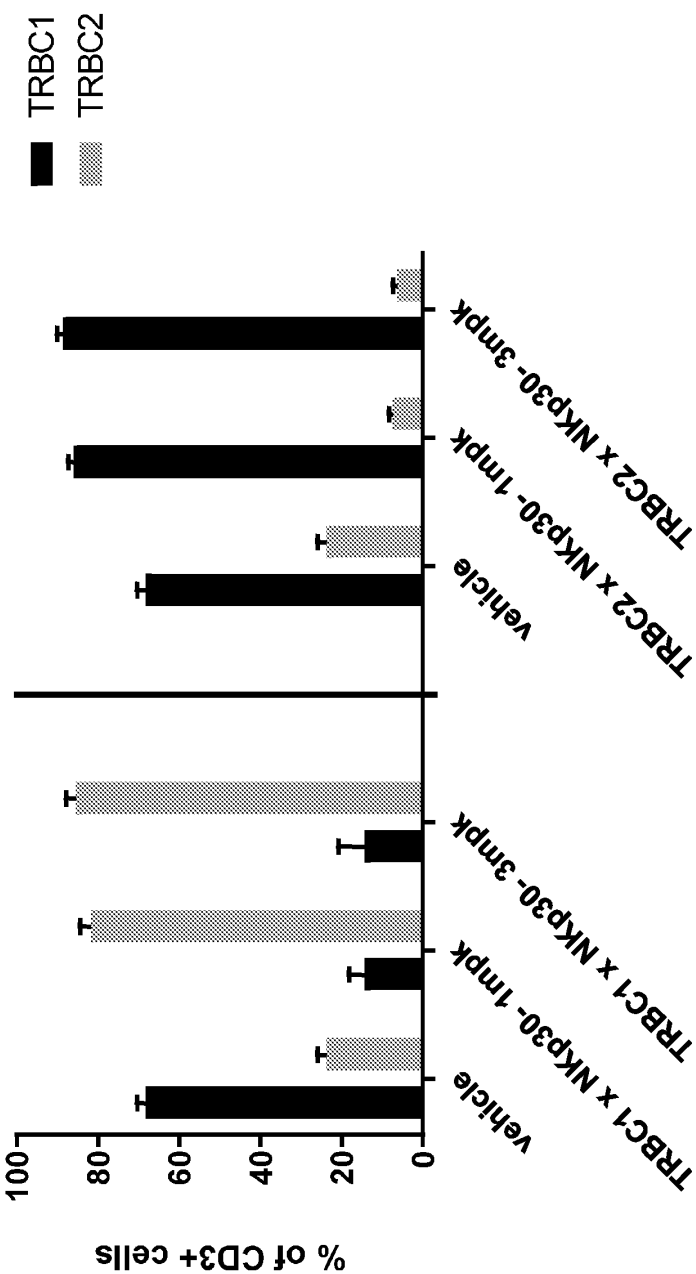


FIG. 38

67/72

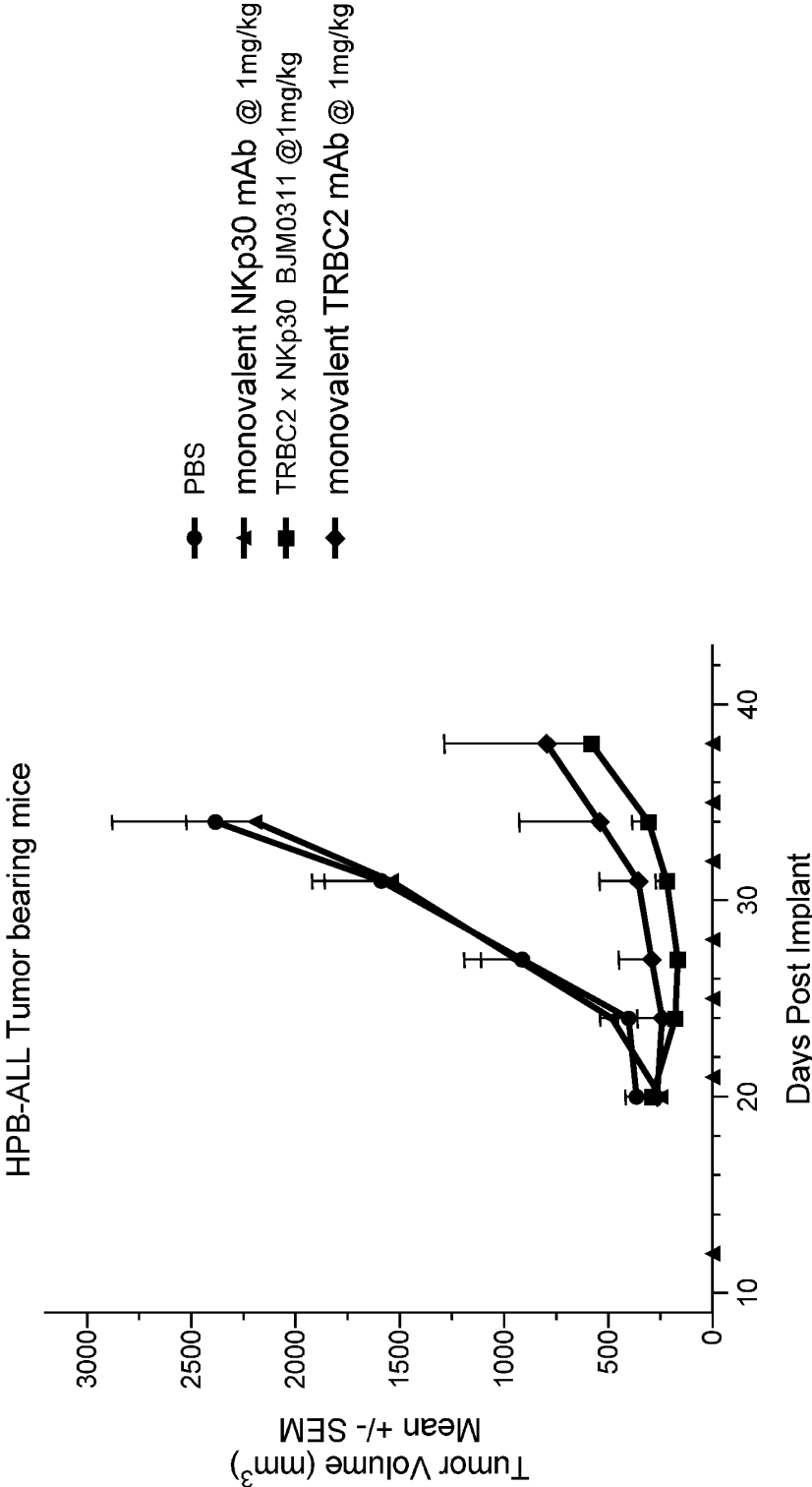


FIG. 39

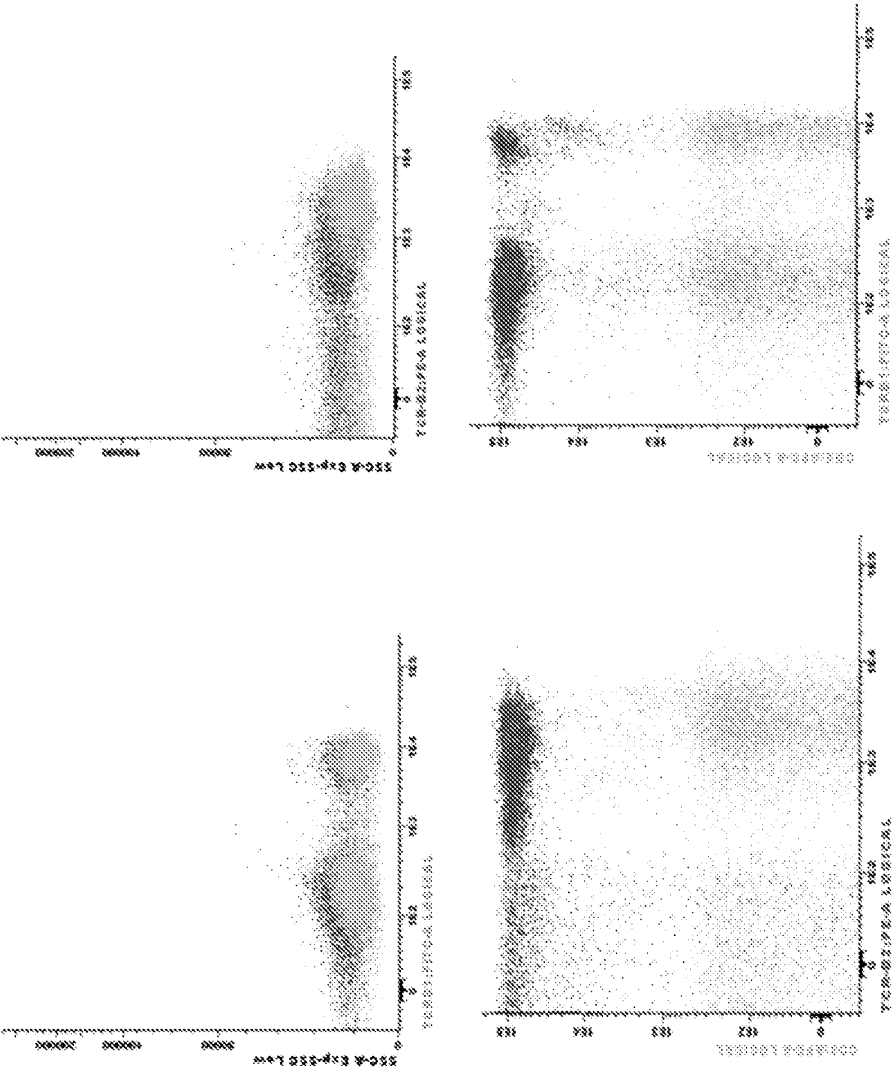


Fig. 40

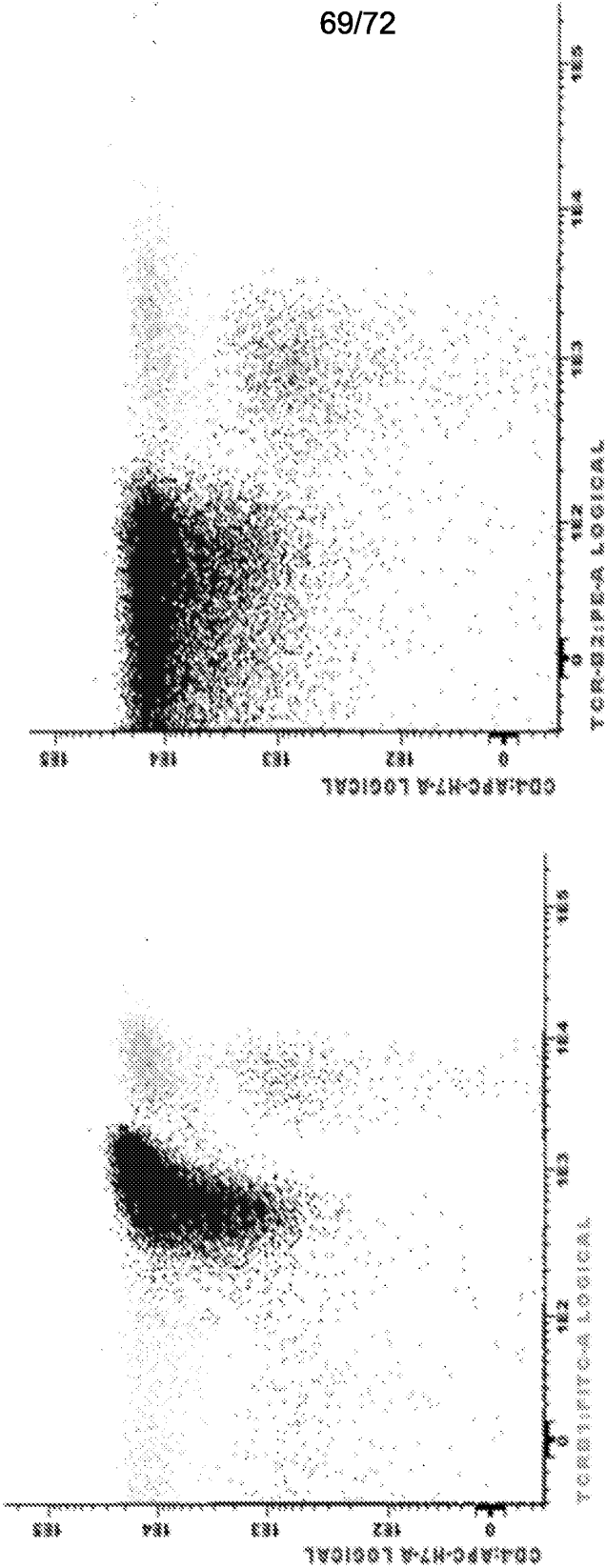


Fig. 41

70/72

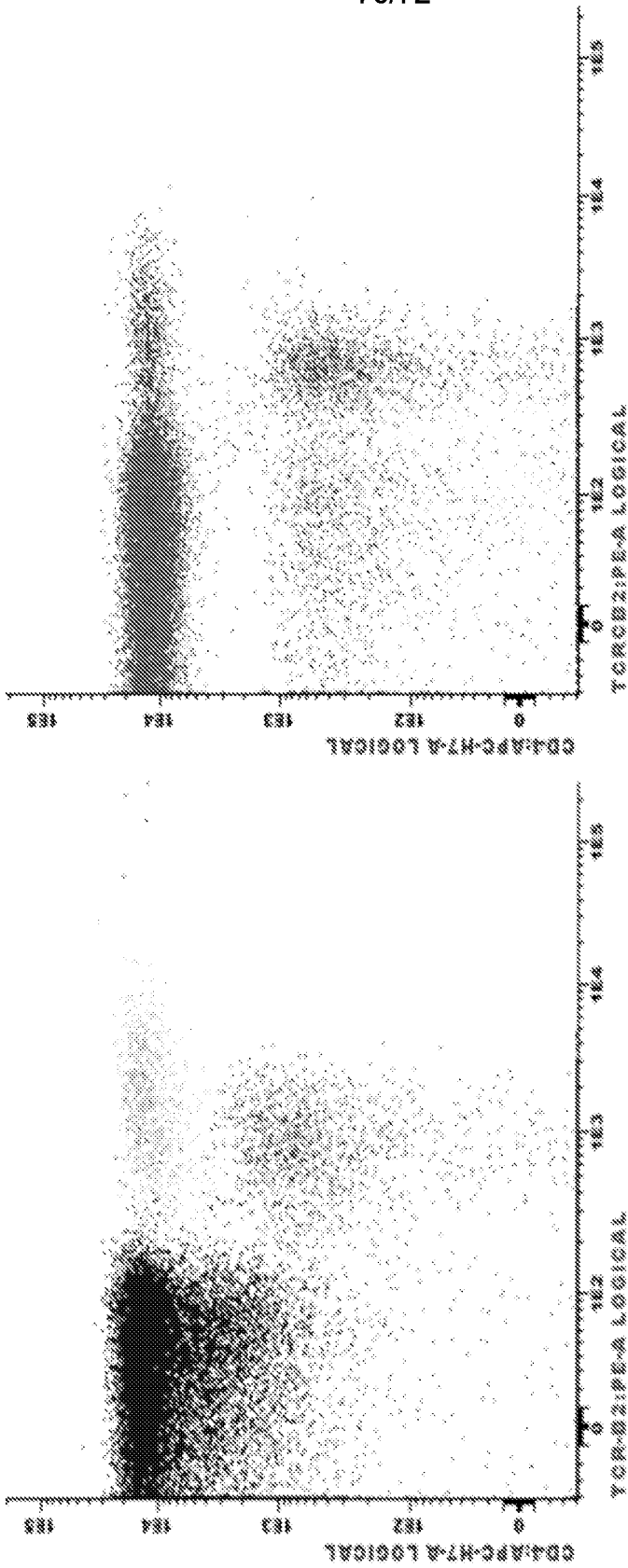


Fig. 42

71/72

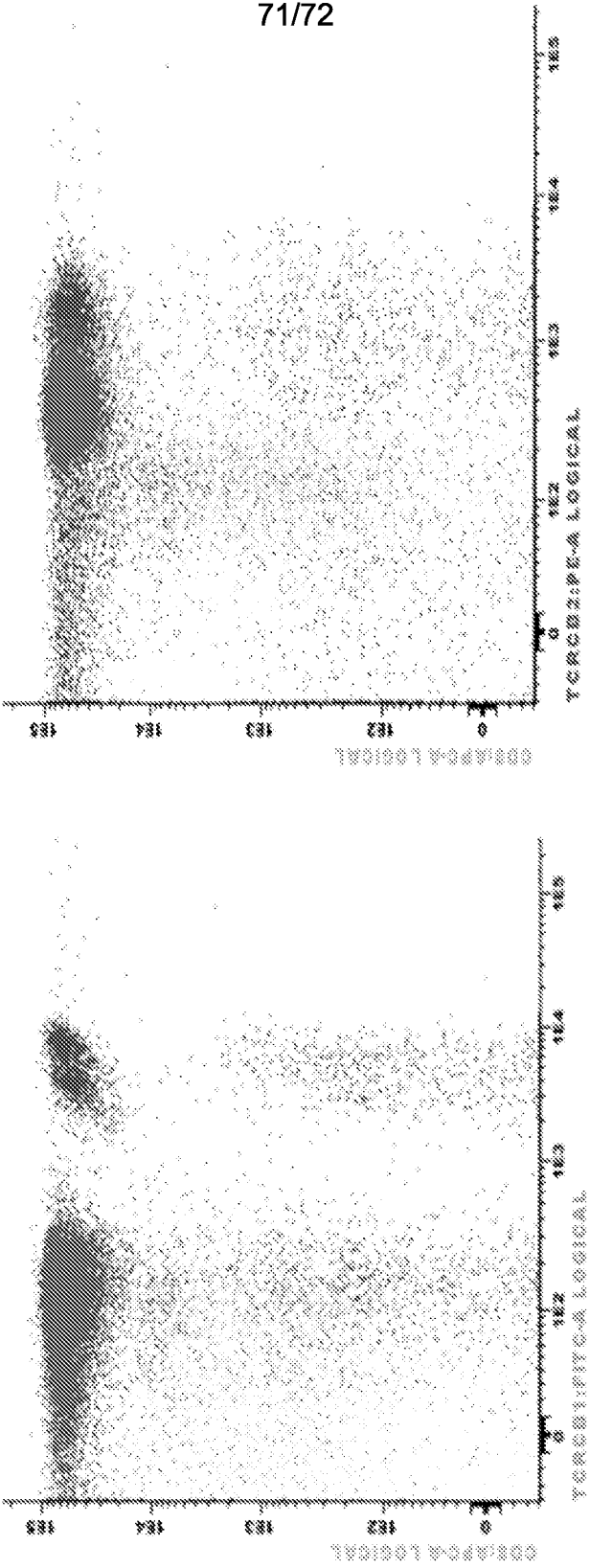


Fig. 43

72/72

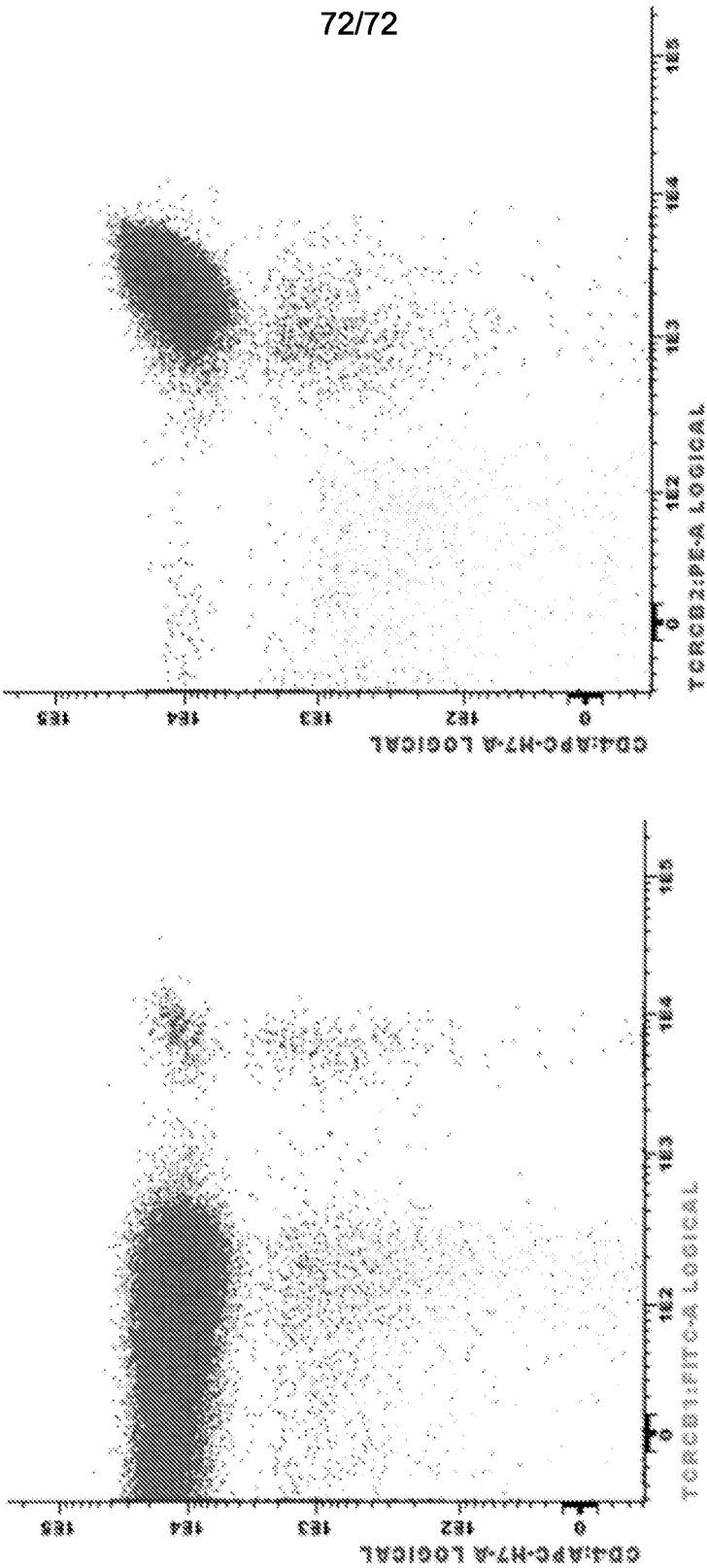


Fig. 44