

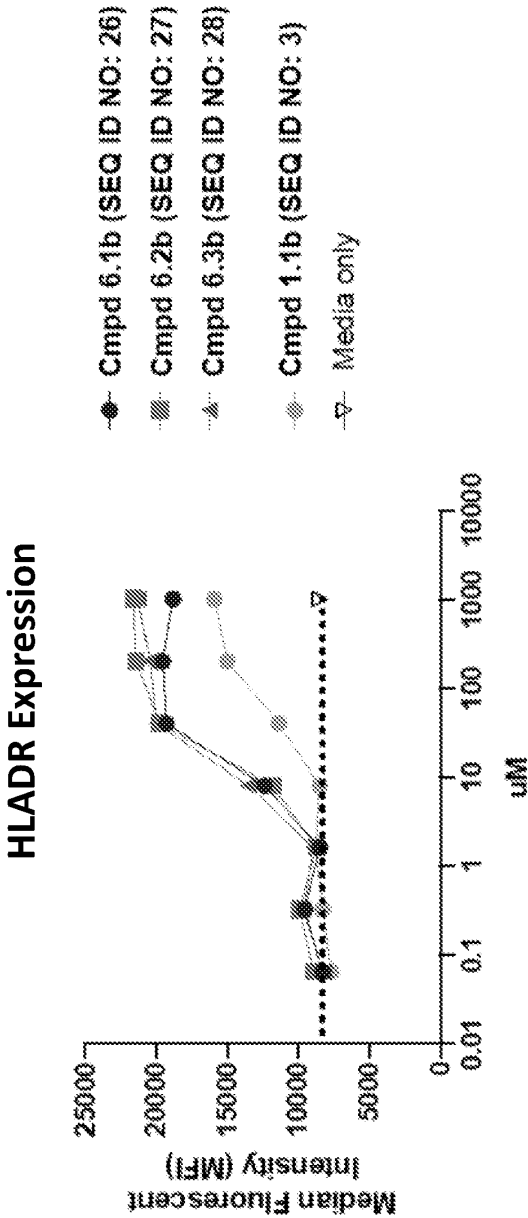


FIG. 1A

CD40 Expression

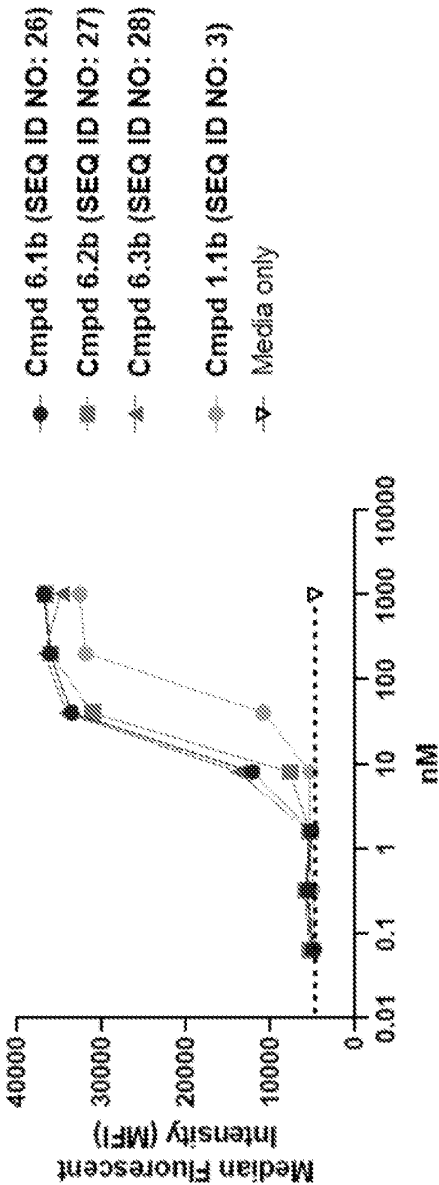


FIG. 1B

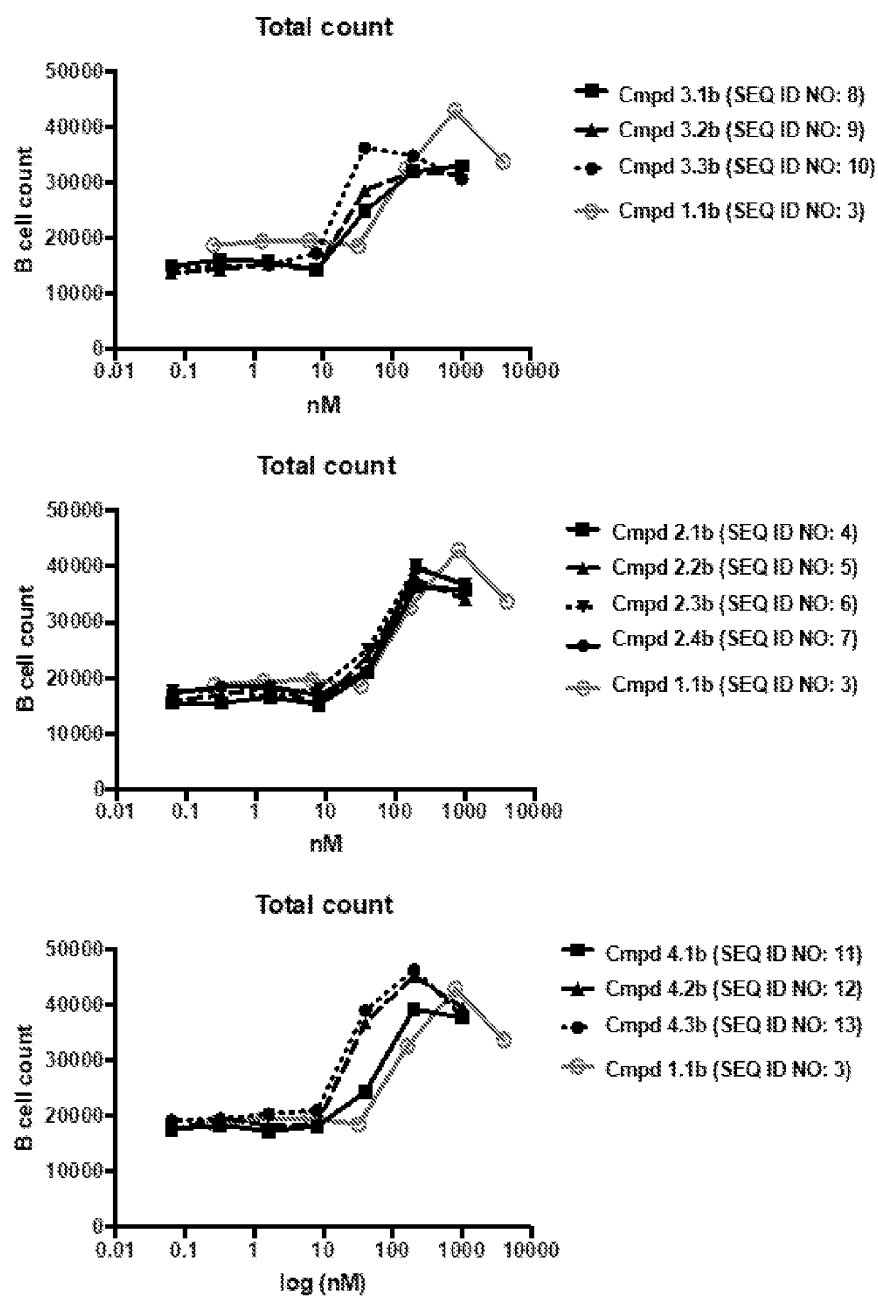


FIG. 2A

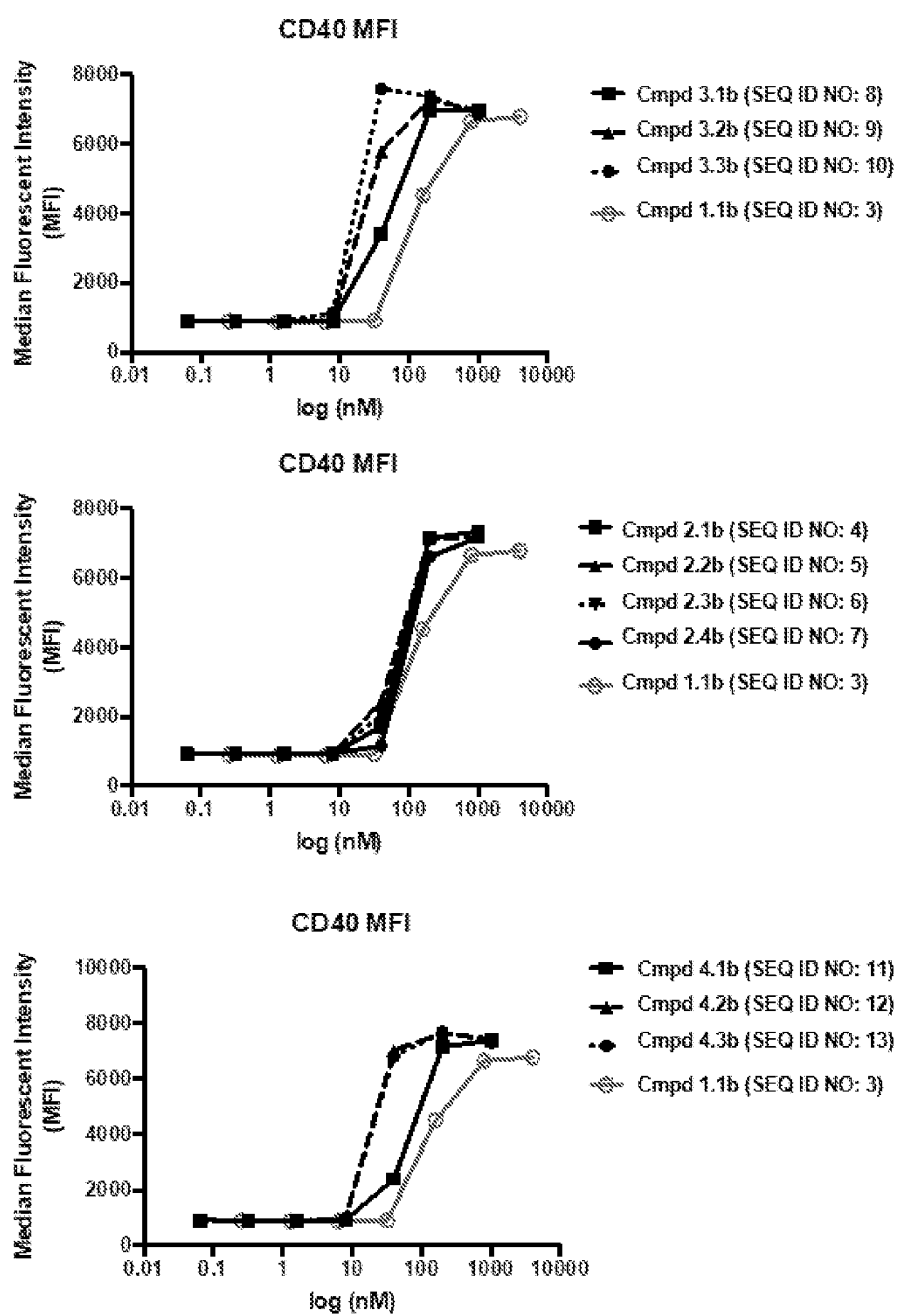


FIG. 2B

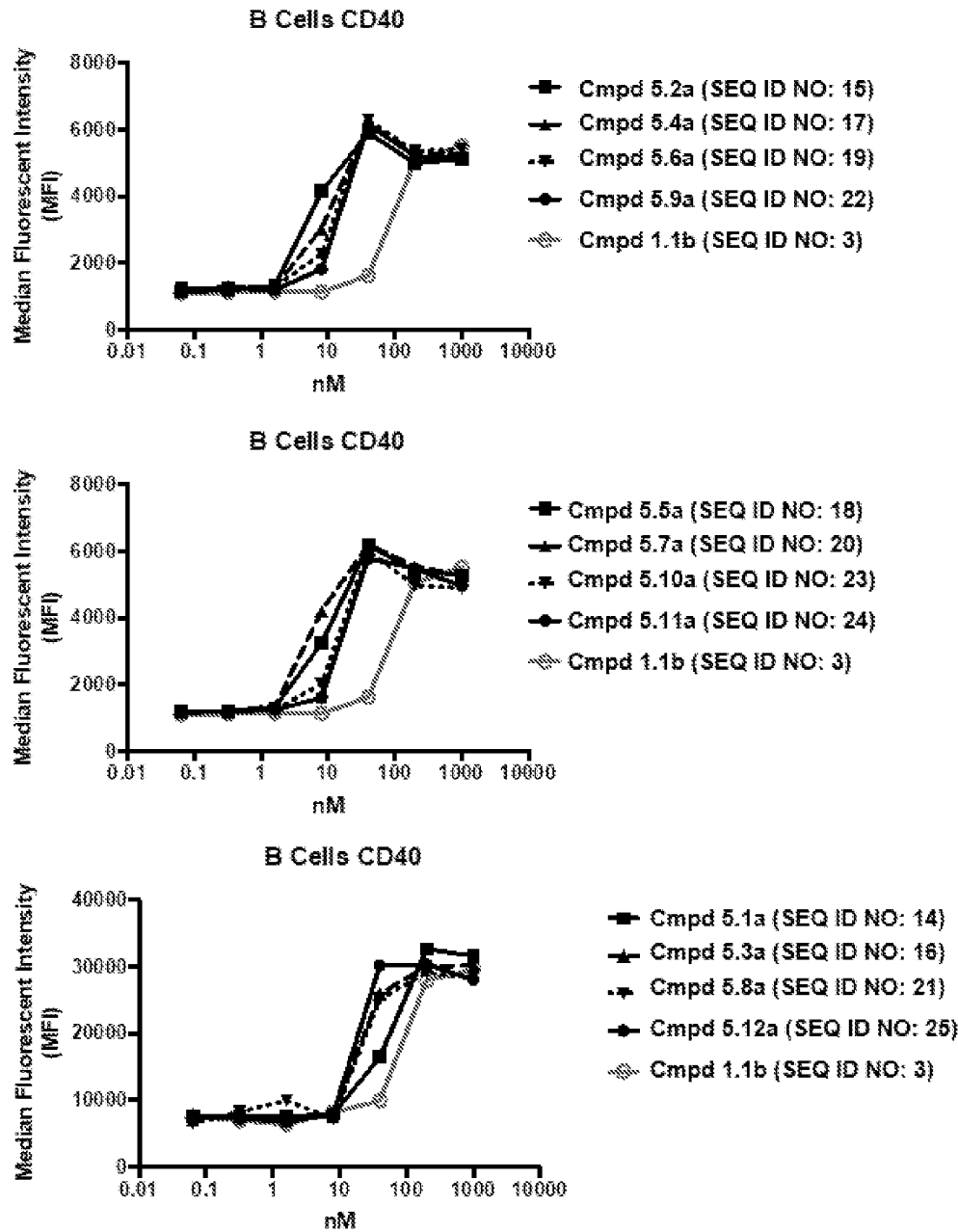


FIG. 2C

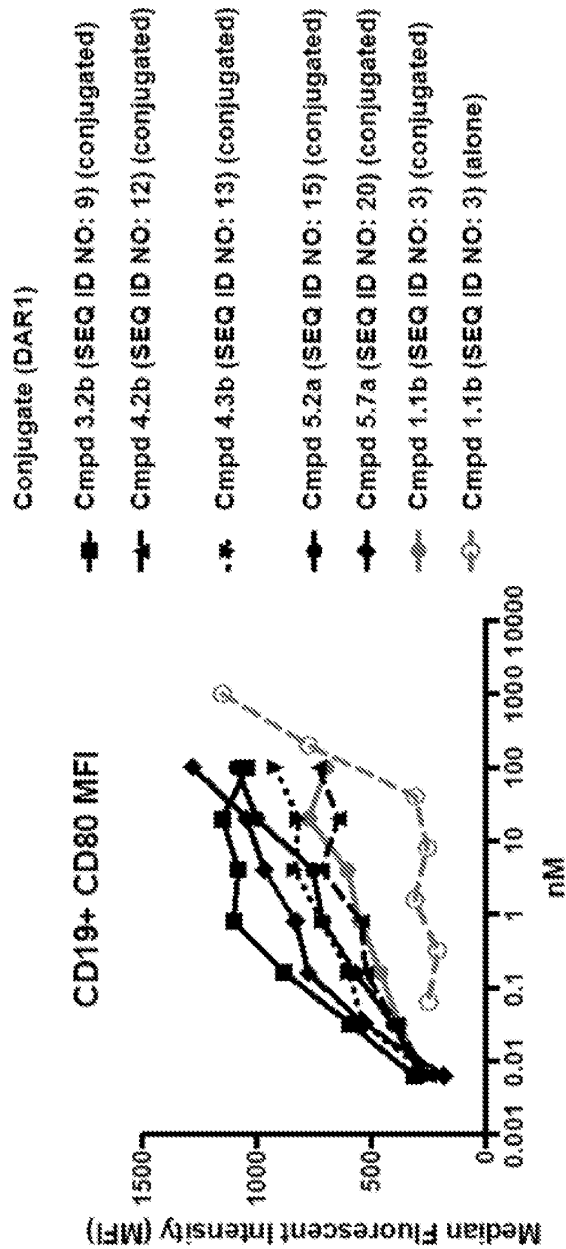


FIG. 2D

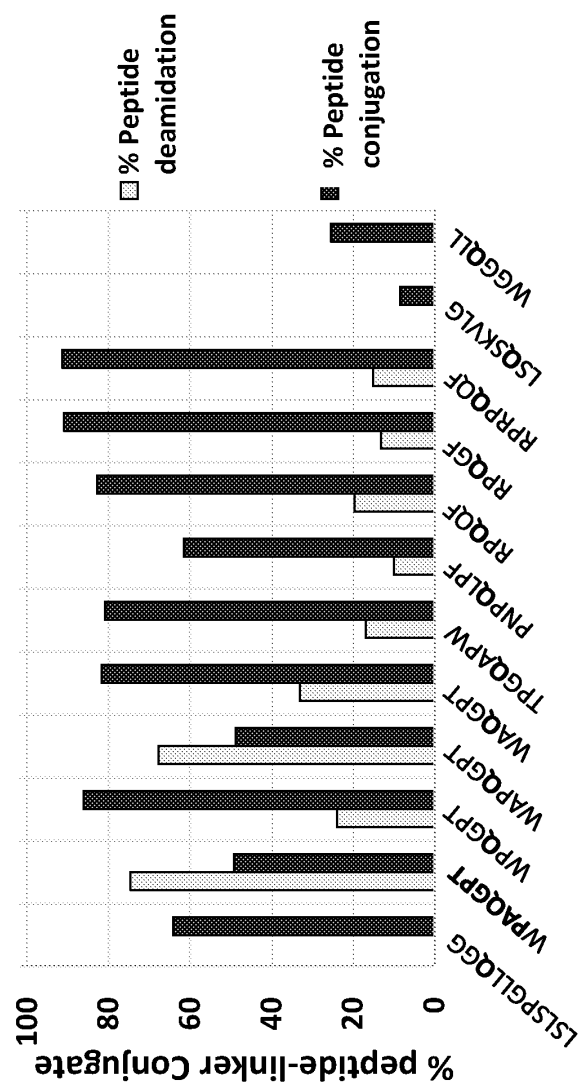


FIG. 3

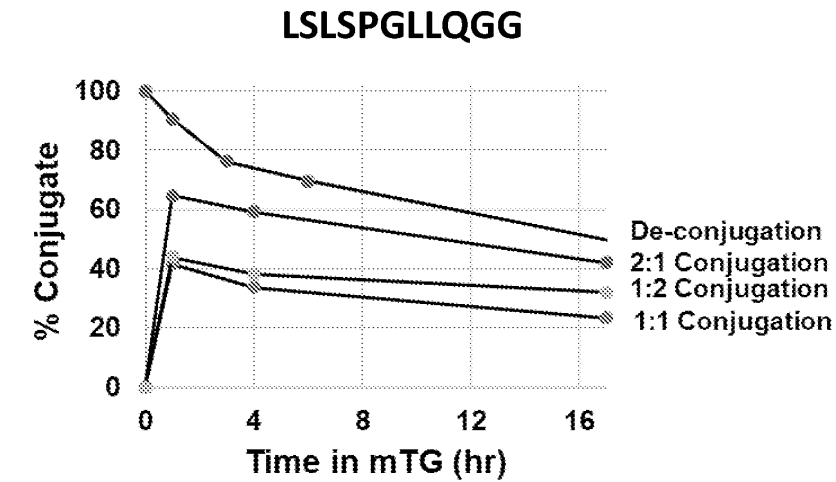


FIG. 4A

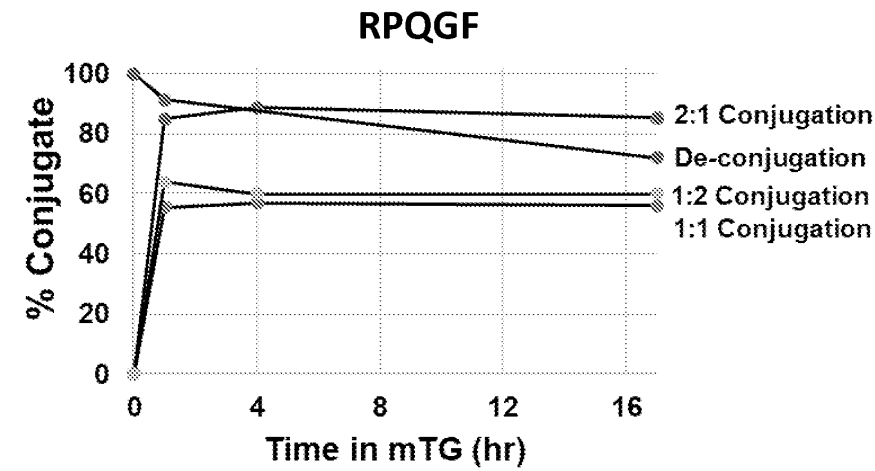


FIG. 4B

FIG. 5B

CD69

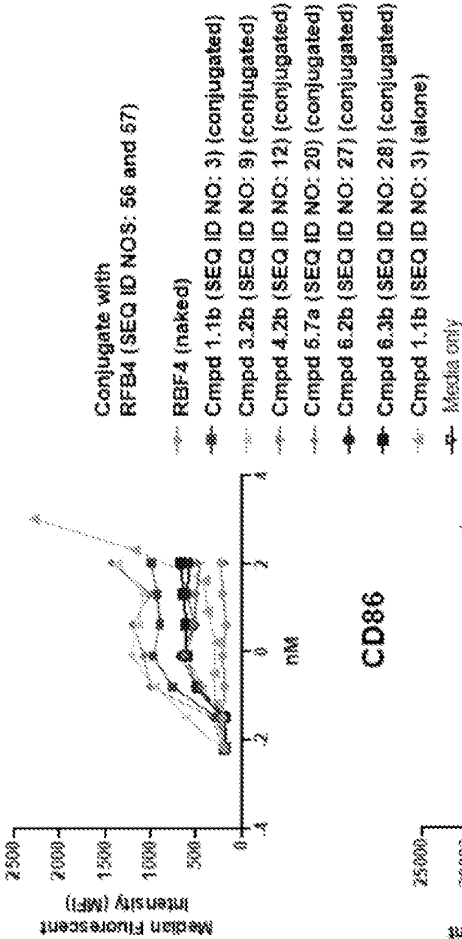


FIG. 5D

CD86

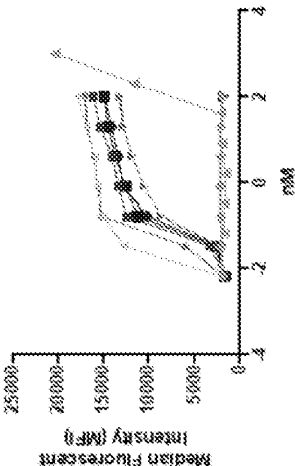


FIG. 5A

CD40

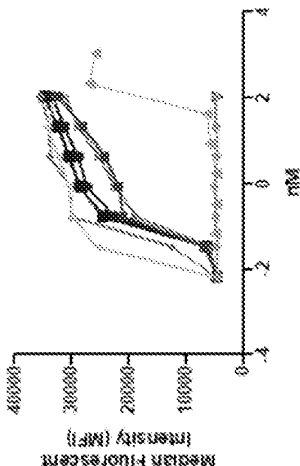


FIG. 5C

HLADR

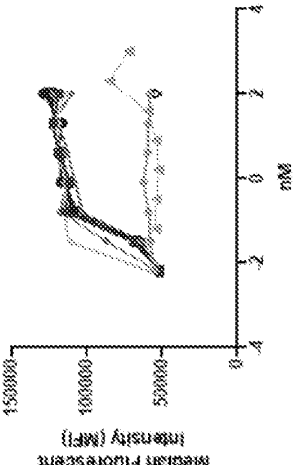


FIG. 6B

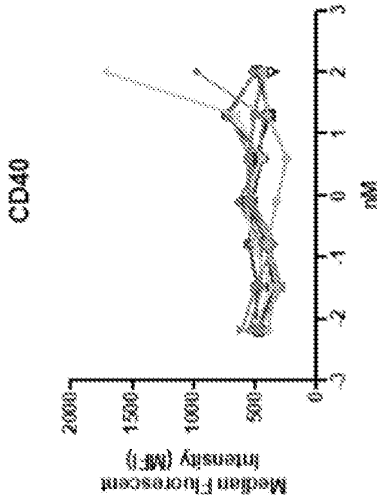
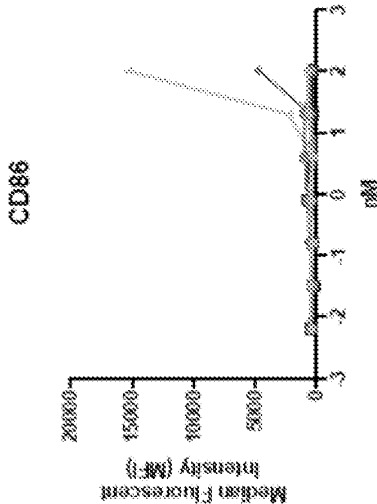


FIG. 6A



HLADR

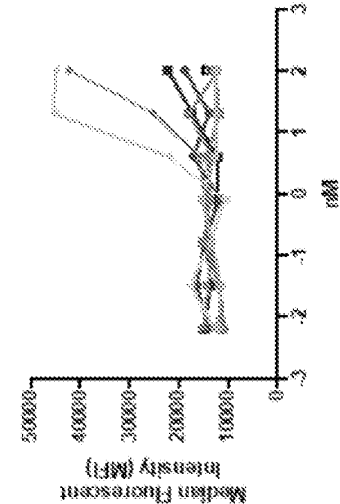


FIG. 6C

- Conjugate with BDC6A2
- BDC6A2 (naked)
 - Cmpd 1.1b (SEQ ID NO: 3) (conjugated)
 - Cmpd 3.2b (SEQ ID NO: 9) (conjugated)
 - Cmpd 4.2b (SEQ ID NO: 12) (conjugated)
 - Cmpd 5.7a (SEQ ID NO: 20) (conjugated)
 - Cmpd 6.2b (SEQ ID NO: 27) (conjugated)
 - Cmpd 6.3b (SEQ ID NO: 28) (conjugated)
 - ▲ Media only

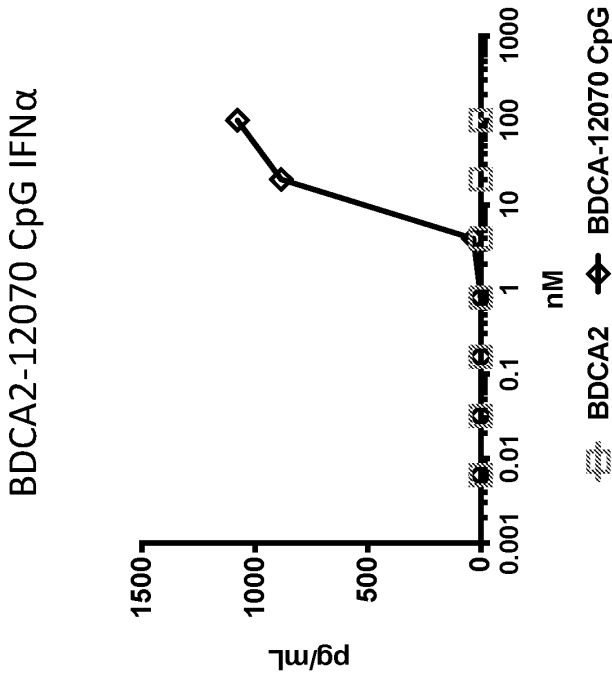


FIG. 6D

FIG. 7B

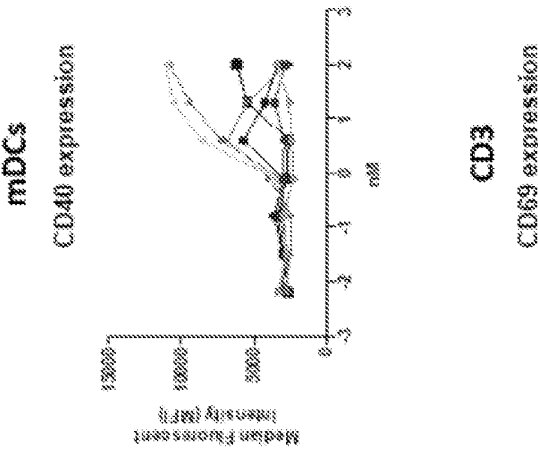


FIG. 7A

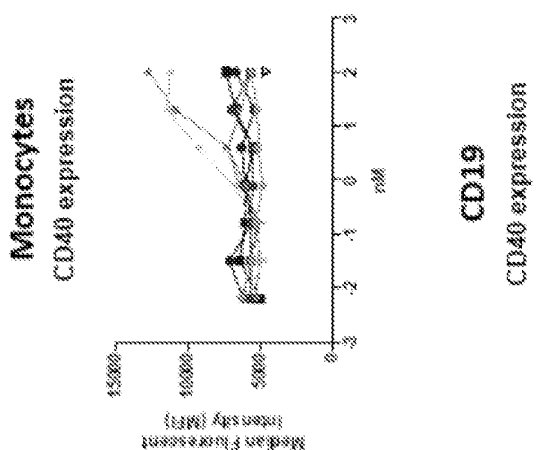


FIG. 7D

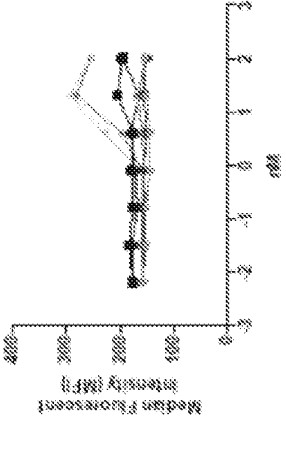
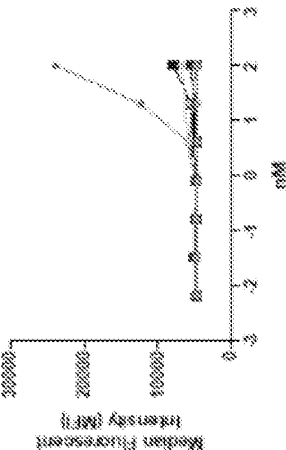


FIG. 7C



mRFB4_LC RL1 RL2 RL3 RL4 RL5	(1)	L1			1	50
		DIQMTQTSSLSASLGDRVTISCRASQDIISNYLNWYQQKPDGTVKLLIYY				
		DIQMTQSPSSLSASVGDRVTITCRASQDIHGYNLNWYQQKPGKAPKLLIYY				
		DIQMTQSPSSVSASVGDRVTITCRASQDIHGYNLNWYQQKPGKAPKLLIYY				
		DIQMTQSPSSLSASVGDRVTITCRASQSISSYNLNWYQQKPGKAPKLLIYY				
		EIVLTQSPATLSLSPGERATLSCRASQDIHGYNLNWYQQKPGQAPRLIYY				
mRFB4_LC RL1 RL2 RL3 RL4 RL5	(1)	DIVMTQTPLSLSVTPGQPASISCRASQDIHGYNLNWYQQKPGQSPQLLIYY				
		L2			51	100
		TSILHSGVPSRFSGSGSGTDYSLTISNLEQEDFATYFCQQGNTLPWTFGG				
		TSILHSGVPSRFSGSGSGTDFTLTIISSLPEDFATYFCQQGNTLPWTFGQ				
		TSSLQSGVPSRFSGSGSGTDFTLTIISSLPEDFATYFCQQGNTLPWTFGQ				
		ASLQSGVPSRFSGSGSGTDFTLTIISSLPEDFATYFCQQGNTLPWTFGQ				
mRFB4_LC RL1 RL2 RL3 RL4 RL5	(101)	TSILHSGIPARFSGSGGPGTDFTLTIISSLEPEDFAVYFCQQGNTLPWTFGG				
		TSILHSGVPDRFSGSGSGTDFTLKISRVEAEDVGIVYFCQQGNTLPWTFGG				
		L3			101	100
		GKLEIK				
		GKLEIK				
		GKLEIK				
mRFB4_LC RL1 RL2 RL3 RL4 RL5	(101)	GKLEIK				
		GKLEIK				
		GKLEIK				
		GKLEIK				
		GKLEIK				
		GKLEIK				

FIG. 8B

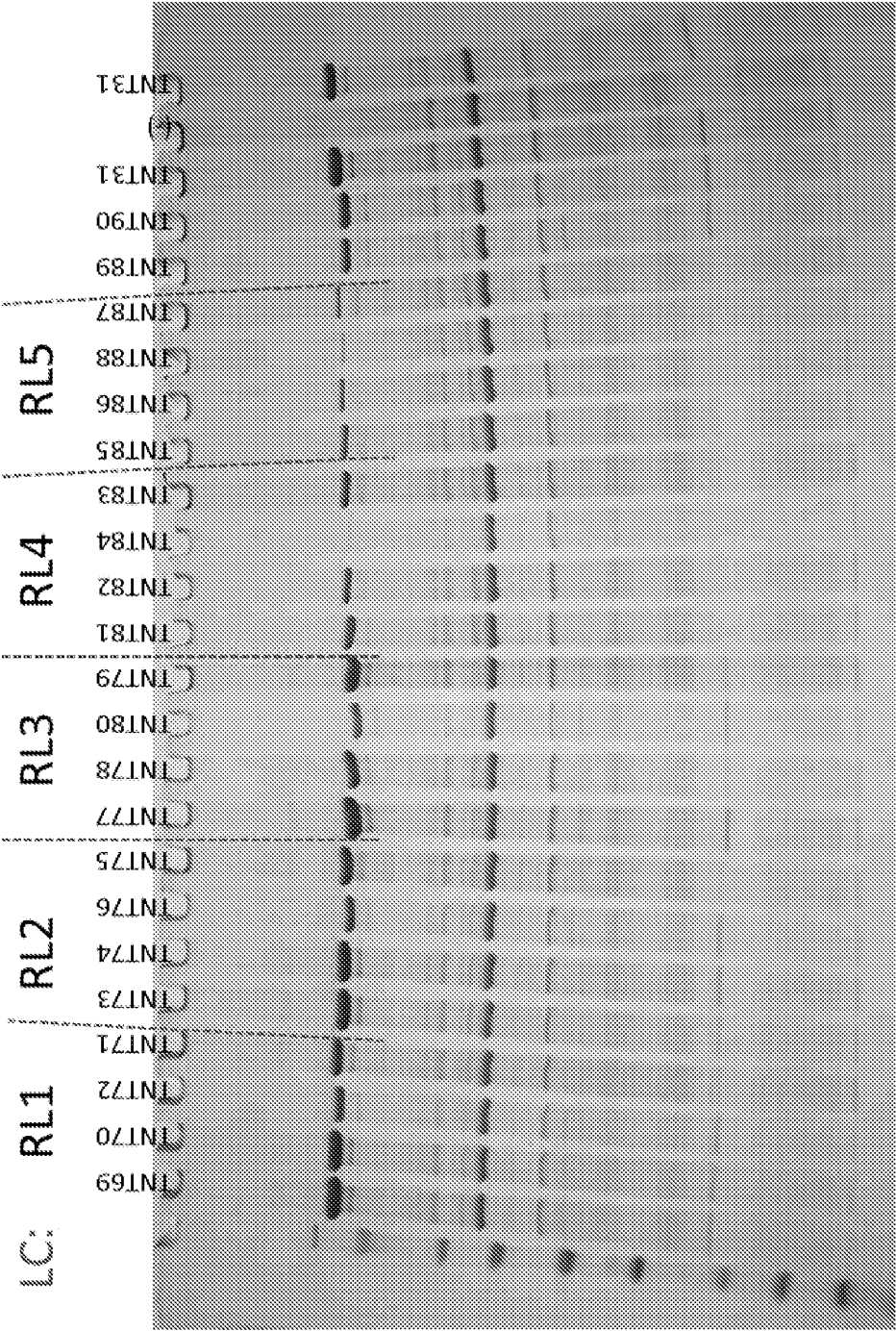


FIG. 9

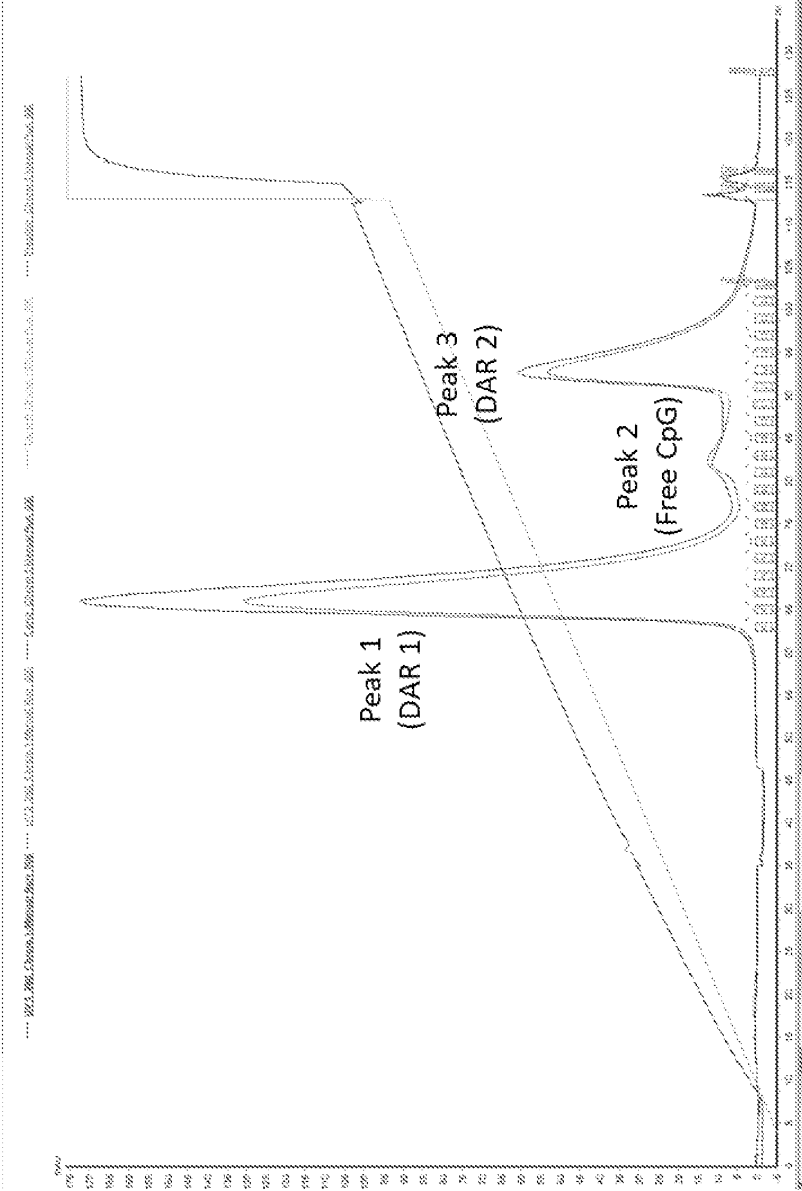


FIG. 10A

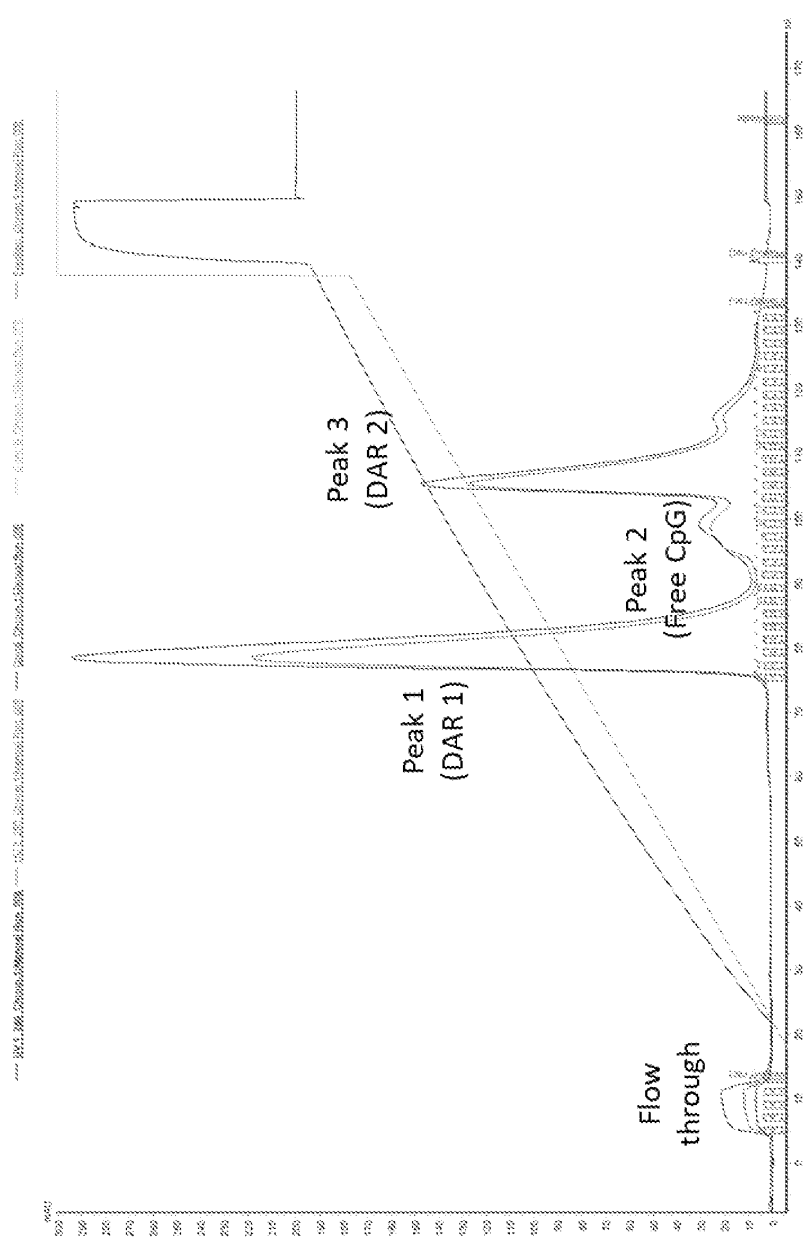


FIG. 10B

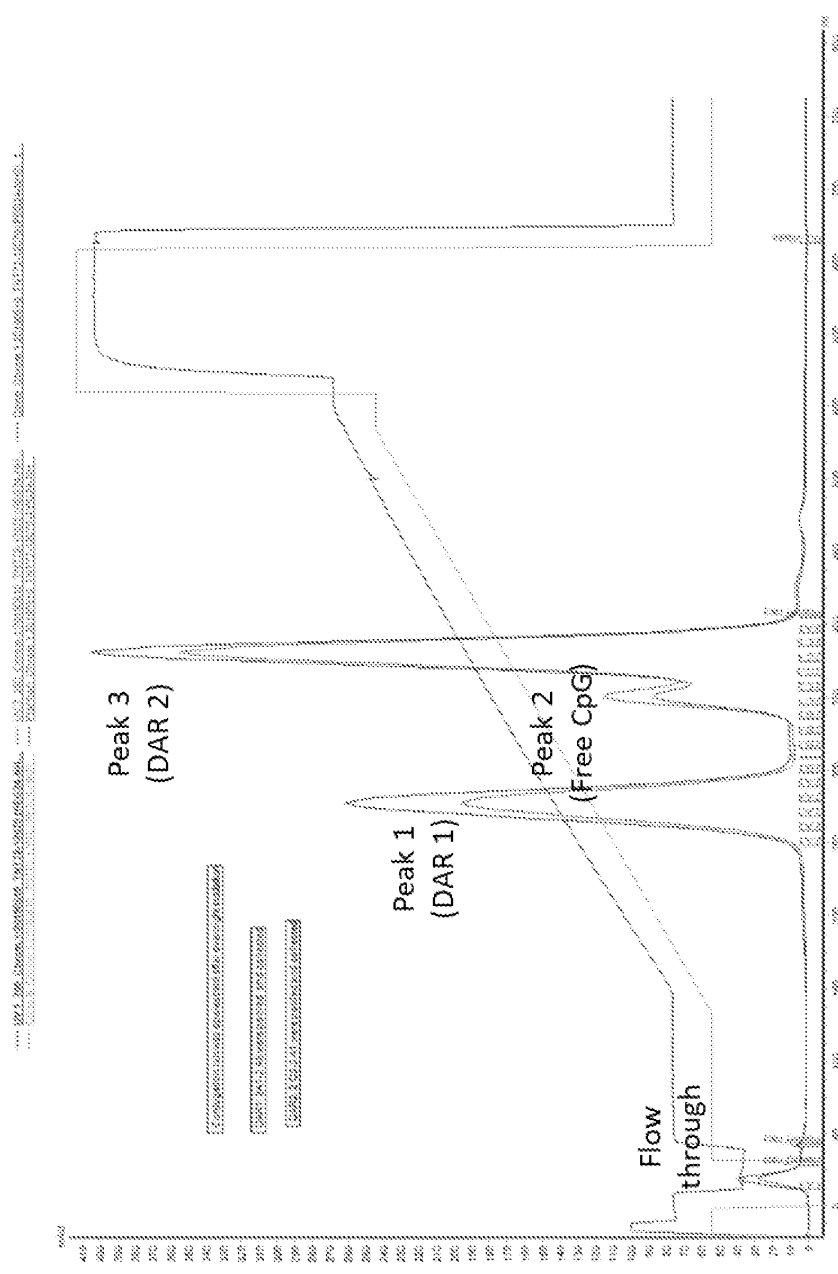


FIG. 10C

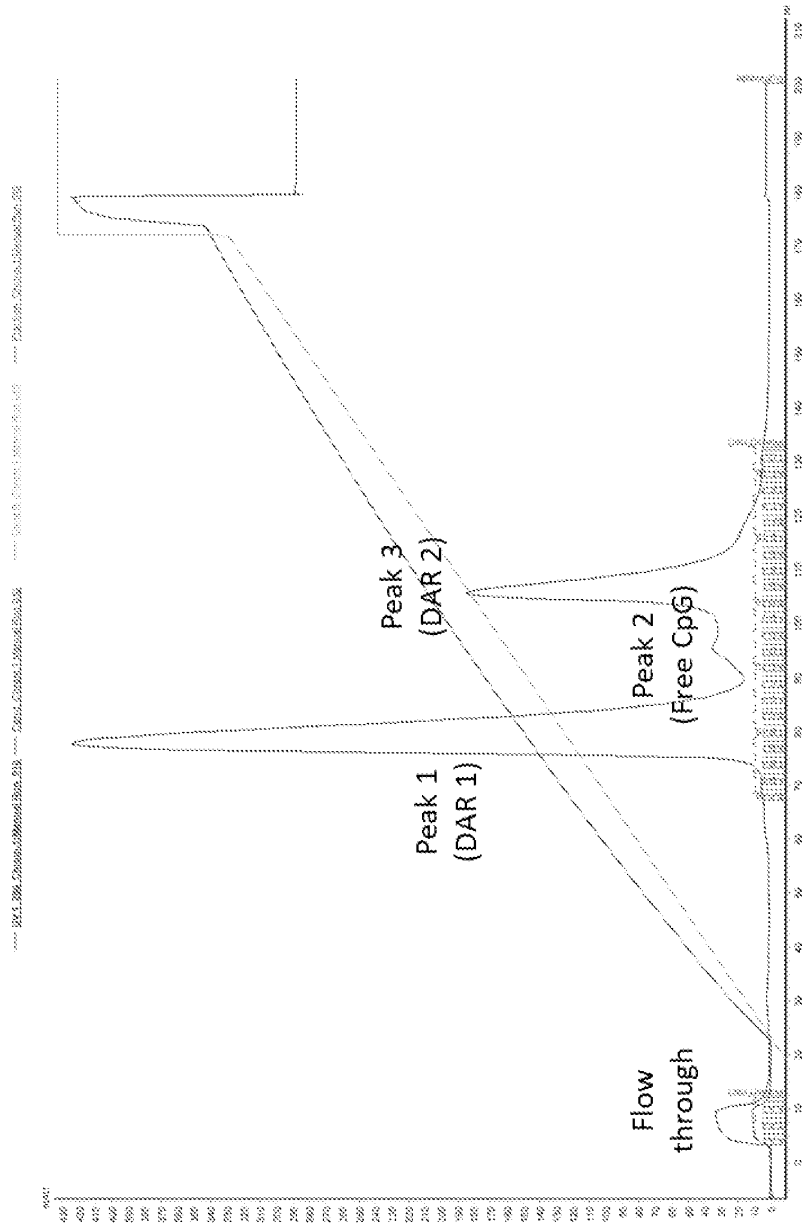


FIG. 10D

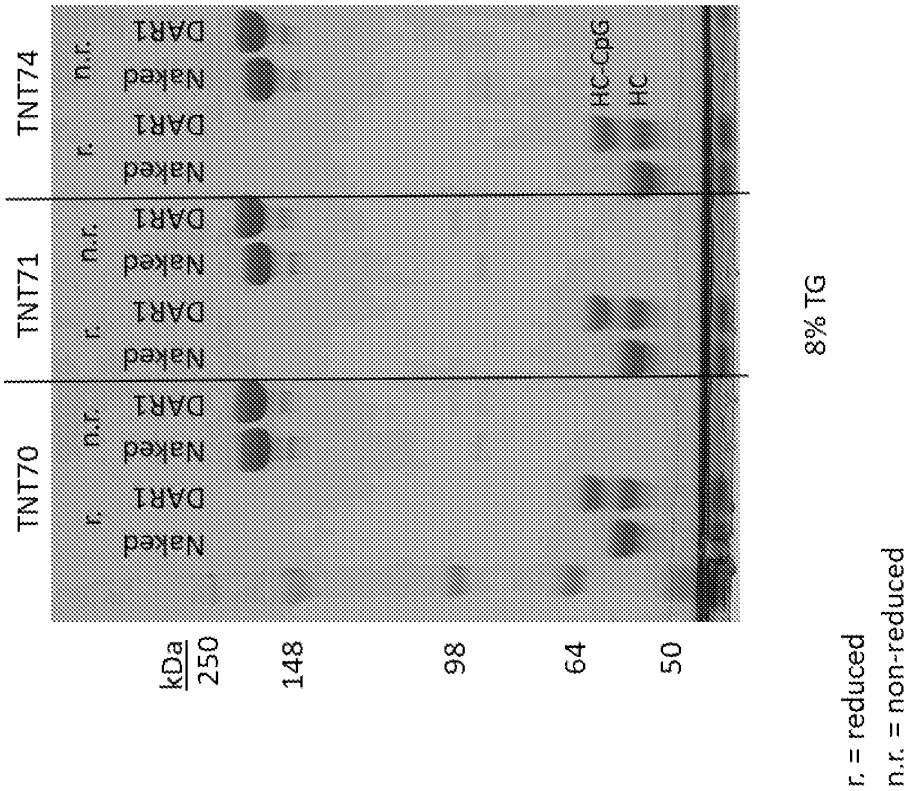


FIG. 10E

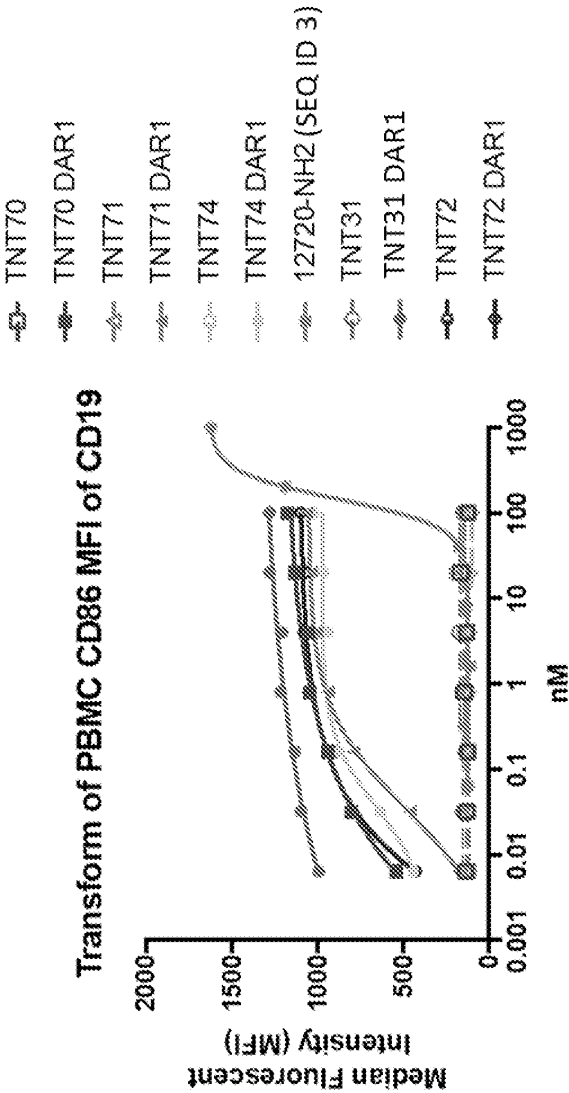


FIG. 11

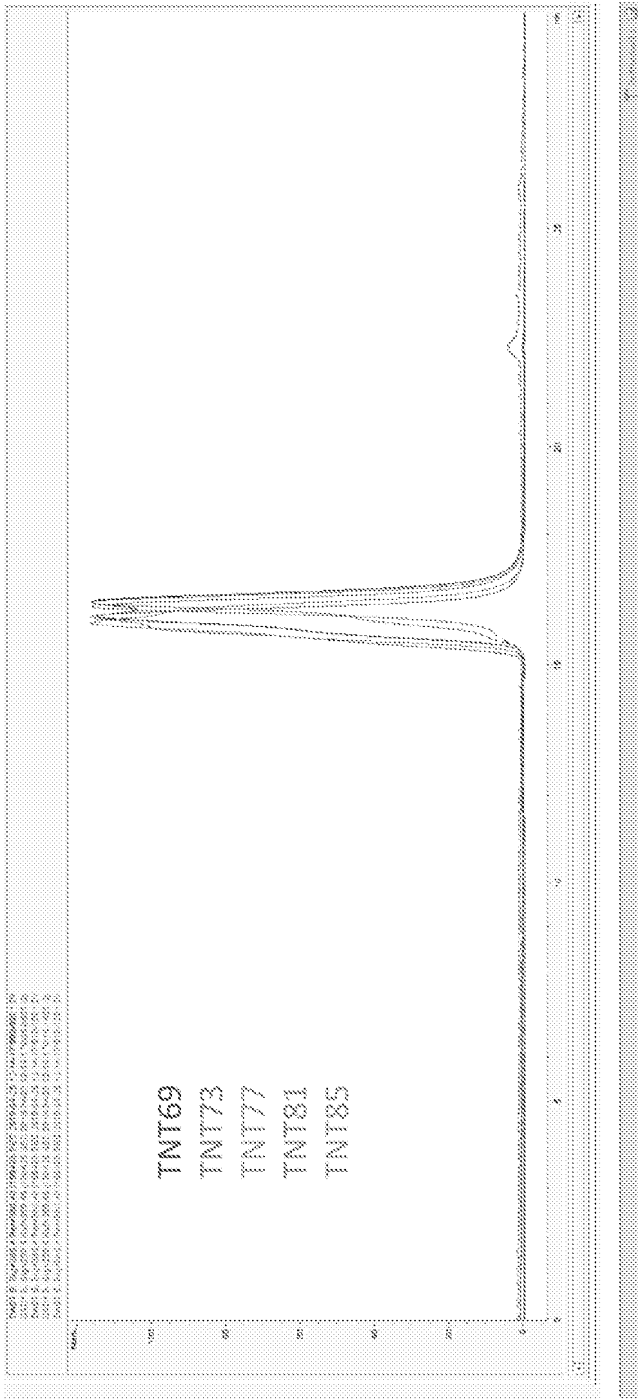


FIG. 12A

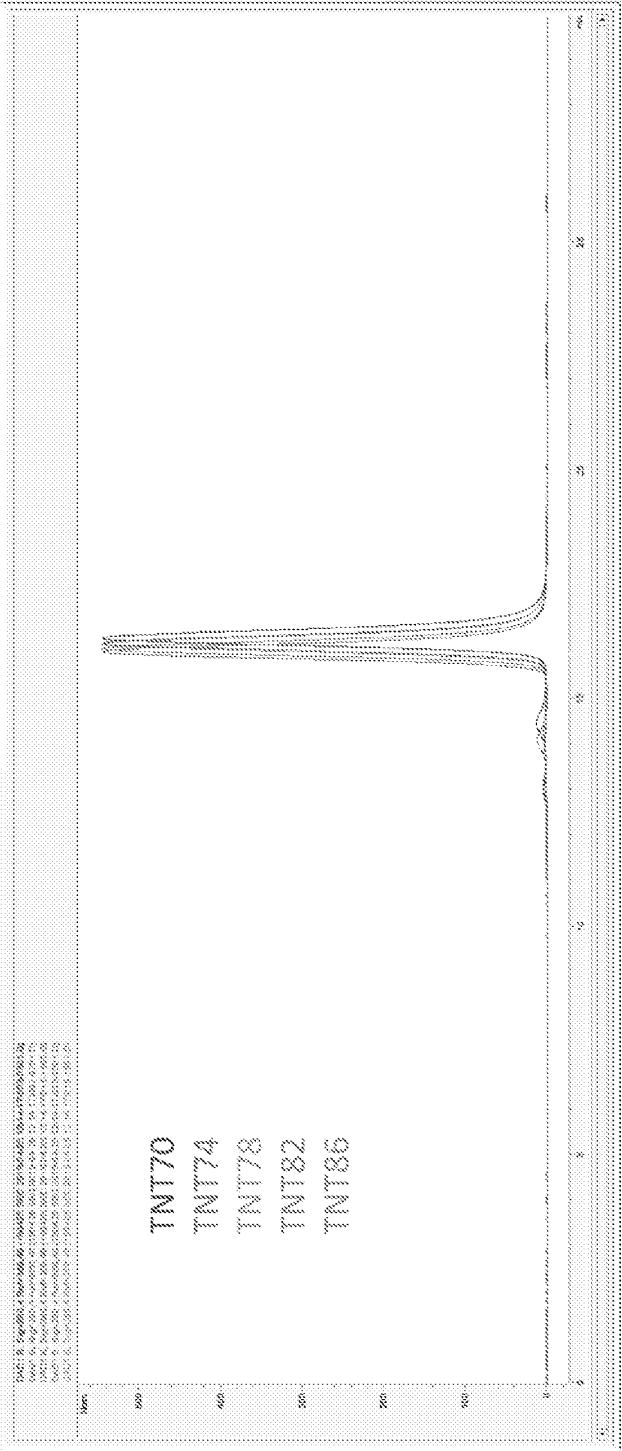


FIG. 12B

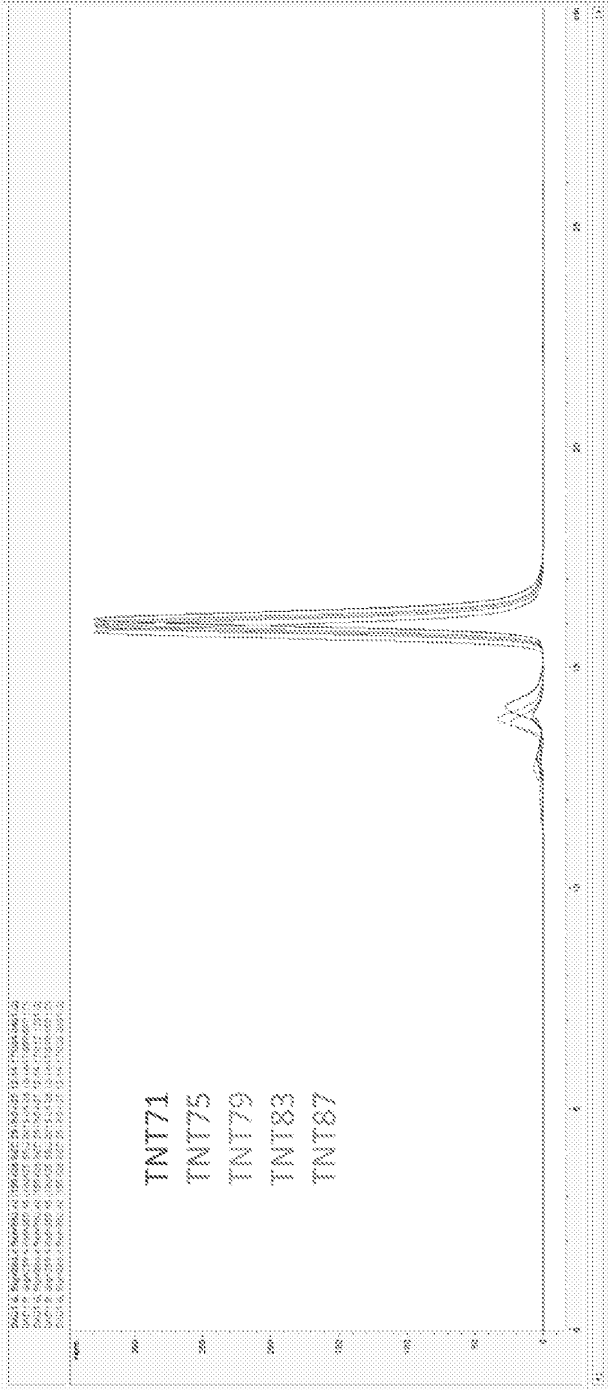


FIG. 12C

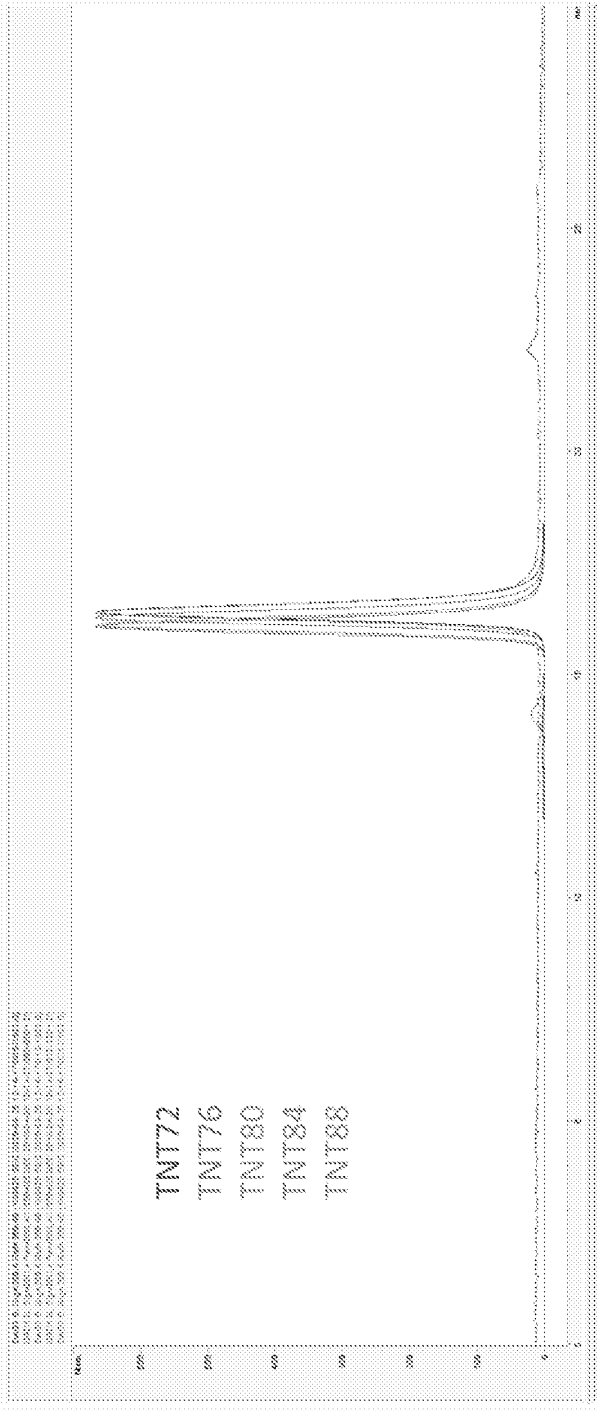


FIG. 12D

Sample	HC	LC	Expression (Expi293)	Expression (CHO)	% HMW	% Monomer	VH/VL Pairings	CD22 KD (nM)	Cyno binding
TNT69	RH1	RL1	100	65	ND	Double peak	HV3/KV1	0.6	High
TNT73	RH1	RL2	95		ND	Broad peak	HV3/KV1	14	Med
TNT77	RH1	RL3	100		ND	Broad peak	HV3/KV1	10	Med
TNT81	RH1	RL4	15	10	ND	Broad peak	HV3/KV3	0.7	High
TNT85	RH1	RL5	10		ND	Broad peak	HV3/KV2	1.3	High
TNT70	RH2	RL1	95	100	3.3	96.7	HV3/KV1	0.4	High
TNT74	RH2	RL2	95		5.0	95.0	HV3/KV1	16	Low
TNT78	RH2	RL3	70		2.4	97.7	HV3/KV1	25	Low
TNT82	RH2	RL4	35	20	2.6	97.4	HV3/KV3	0.9	High
TNT86	RH2	RL5	10		1.6	98.4	HV3/KV2	1.1	High
TNT71	RH3	RL1	75	100	12.5	87.5	HV3/KV1	0.3	High
TNT75	RH3	RL2	75		10.2	89.8	HV3/KV1	30	High
TNT79	RH3	RL3	70		4.3	95.7	HV3/KV1	23	Med
TNT83	RH3	RL4	15	20	4.8	95.2	HV3/KV3	6	High
TNT87	RH3	RL5	10		15.1	84.9	HV3/KV2	0.7	High
TNT72	RH4	RL1	50	65	0.9	99.1	HV4/KV1	0.7	High
TNT76	RH4	RL2	50		1.0	99.0	HV4/KV1	30	Low
TNT80	RH4	RL3	35		1.1	98.9	HV4/KV1	23	Low
TNT84	RH4	RL4	5	20	0.0	100.0	HV4/KV3	2.5	Med
TNT88	RH4	RL5	5		4.6	95.4	HV4/KV2	1.3	High

FIG. 13A

Sample	HC	LC	Expression (Exp293)	Expression (O40)
TNT69	RH1	RL1	100	45
TNT73	RH1	RL2	95	
TNT77	RH1	RL3	100	
TNT81	RH1	RL4	95	30
TNT85	RH1	RL5	10	
TNT70	RH2	RL1	95	100
TNT74	RH2	RL2	95	
TNT78	RH2	RL3	70	
TNT82	RH2	RL4	35	30
TNT86	RH2	RL5	10	
TNT71	RH3	RL1	75	100
TNT75	RH3	RL2	75	
TNT79	RH3	RL3	70	
TNT83	RH3	RL4	95	20
TNT87	RH3	RL5	10	
TNT72	RH4	RL1	90	45
TNT76	RH4	RL2	90	
TNT80	RH4	RL3	35	
TNT84	RH4	RL4	5	20
TNT88	RH4	RL5	5	

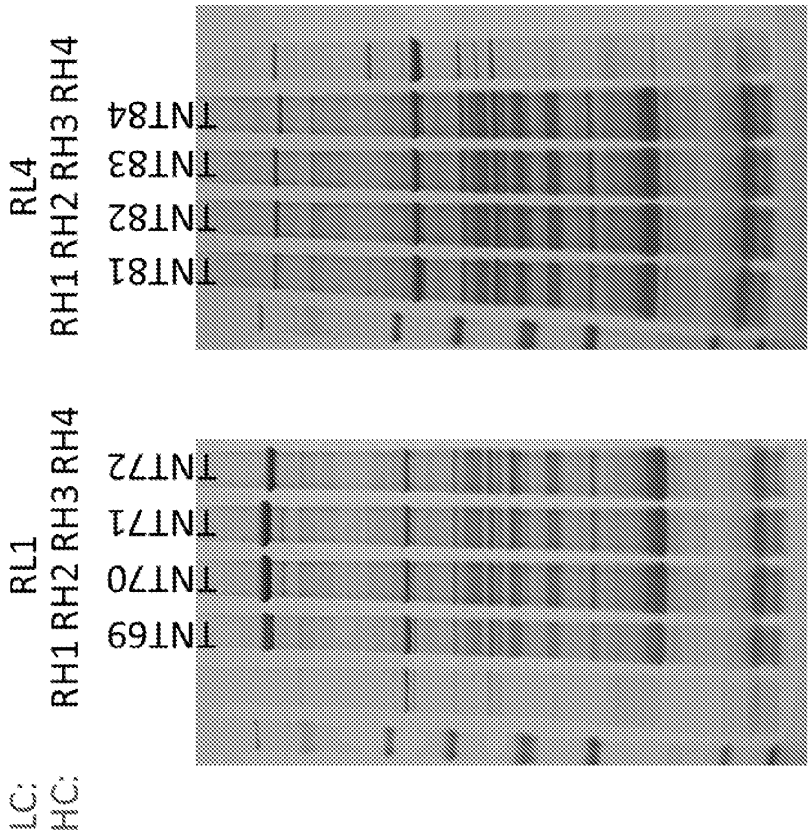


FIG. 13B

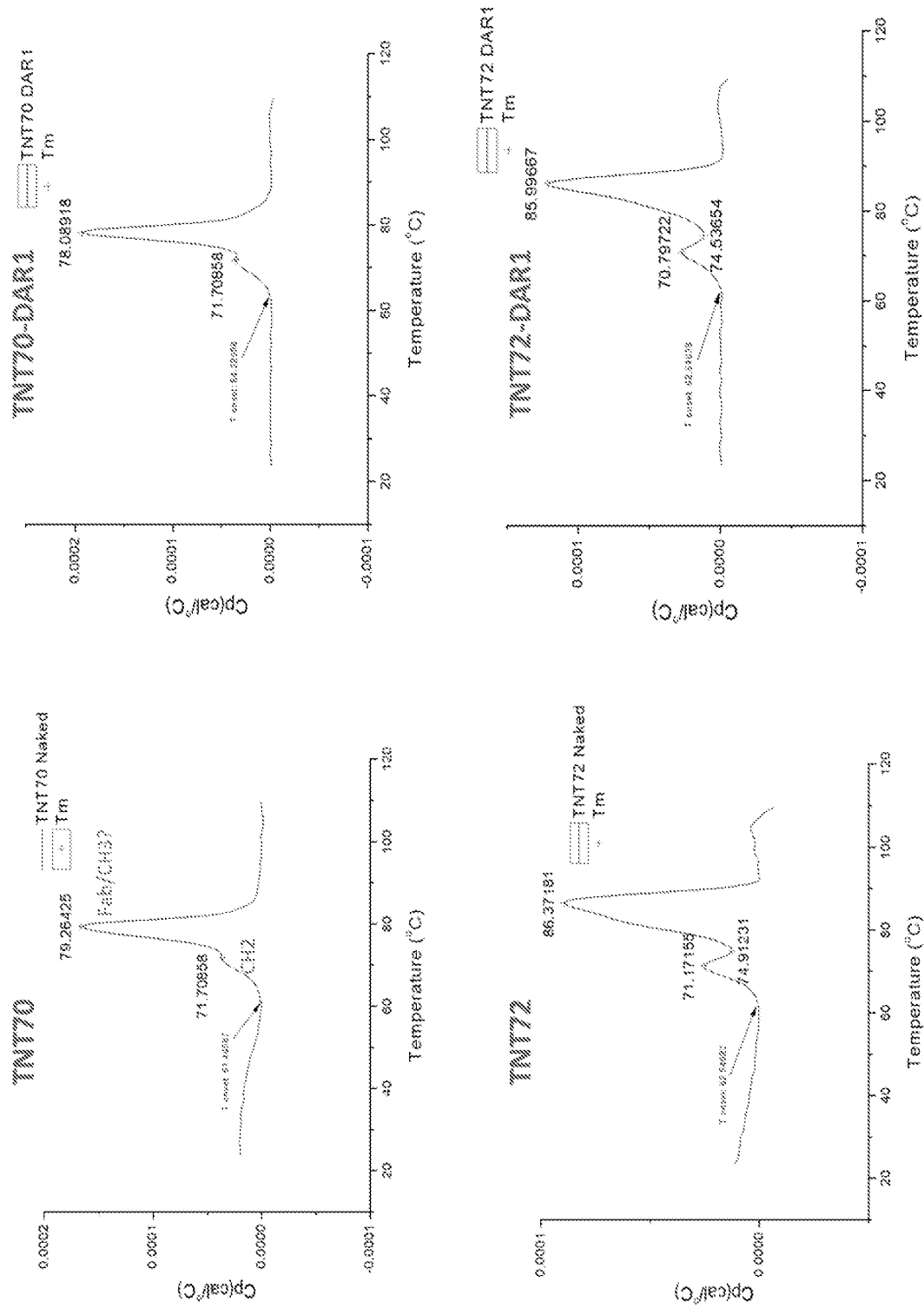


FIG. 14

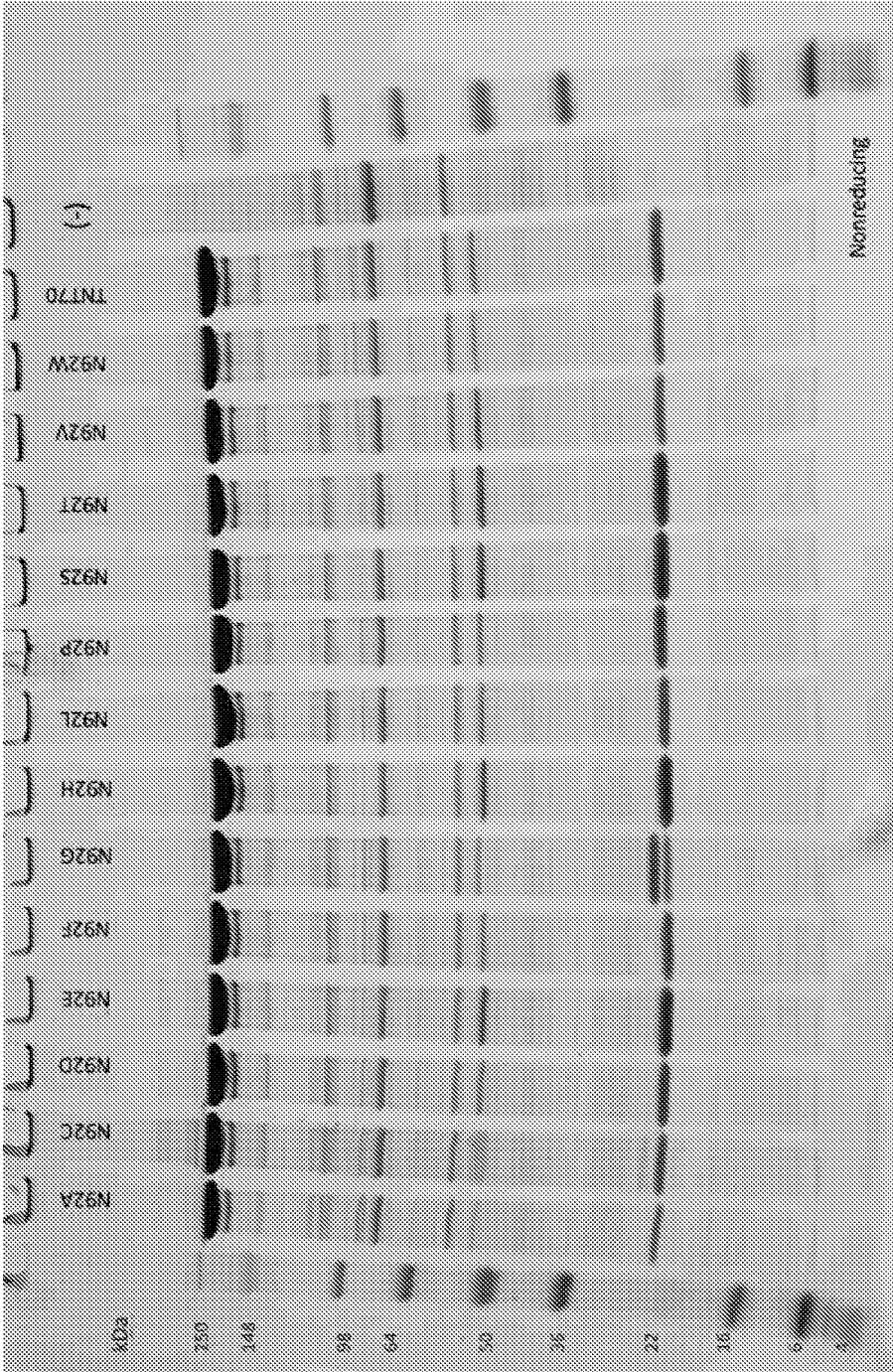


FIG. 15A

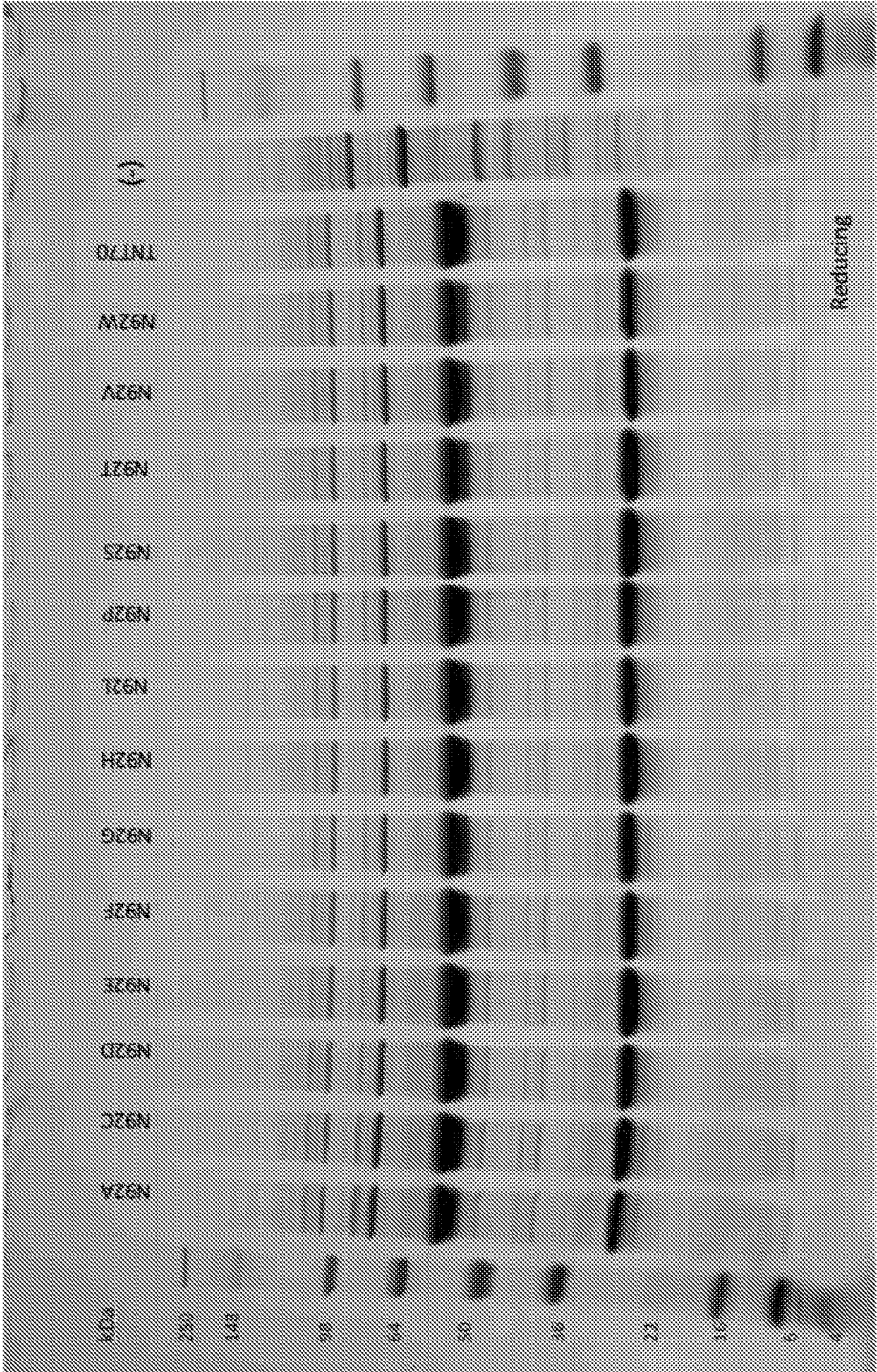


FIG. 15B

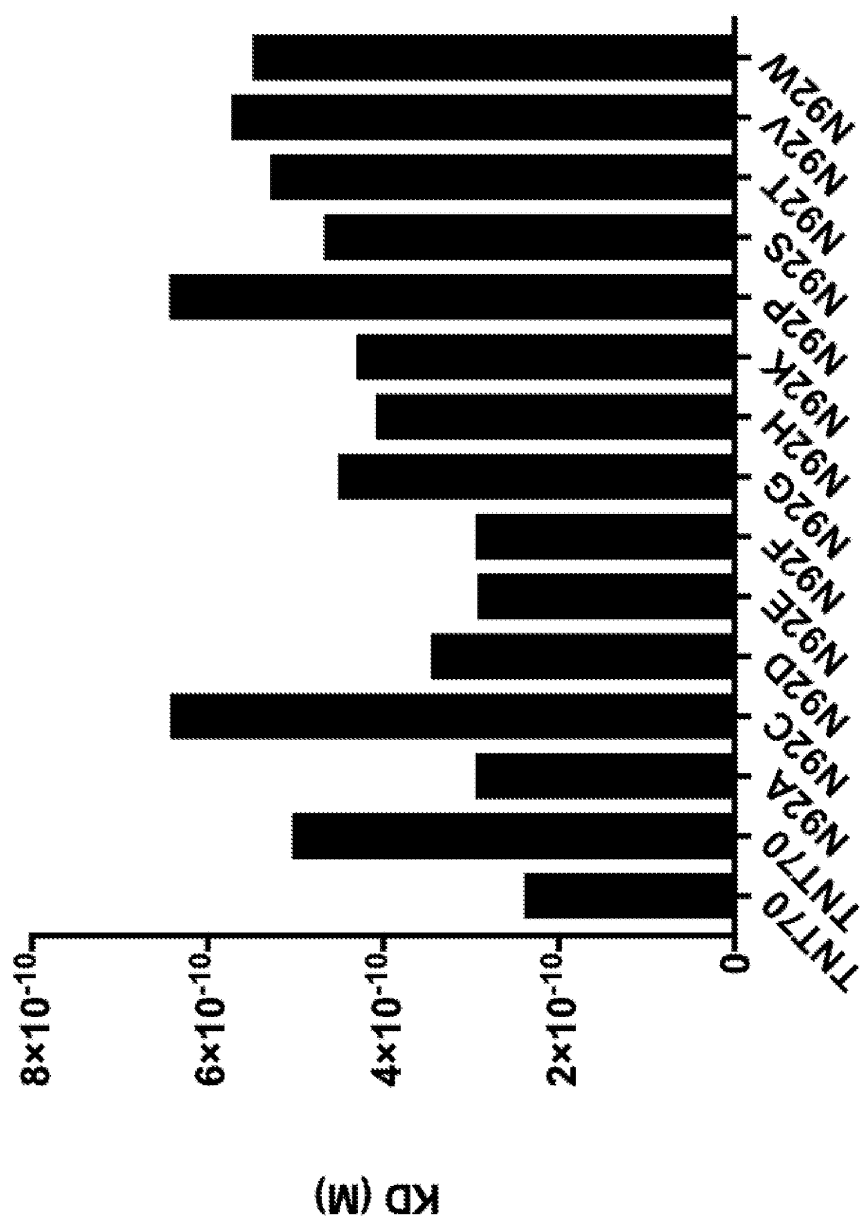


FIG. 15C

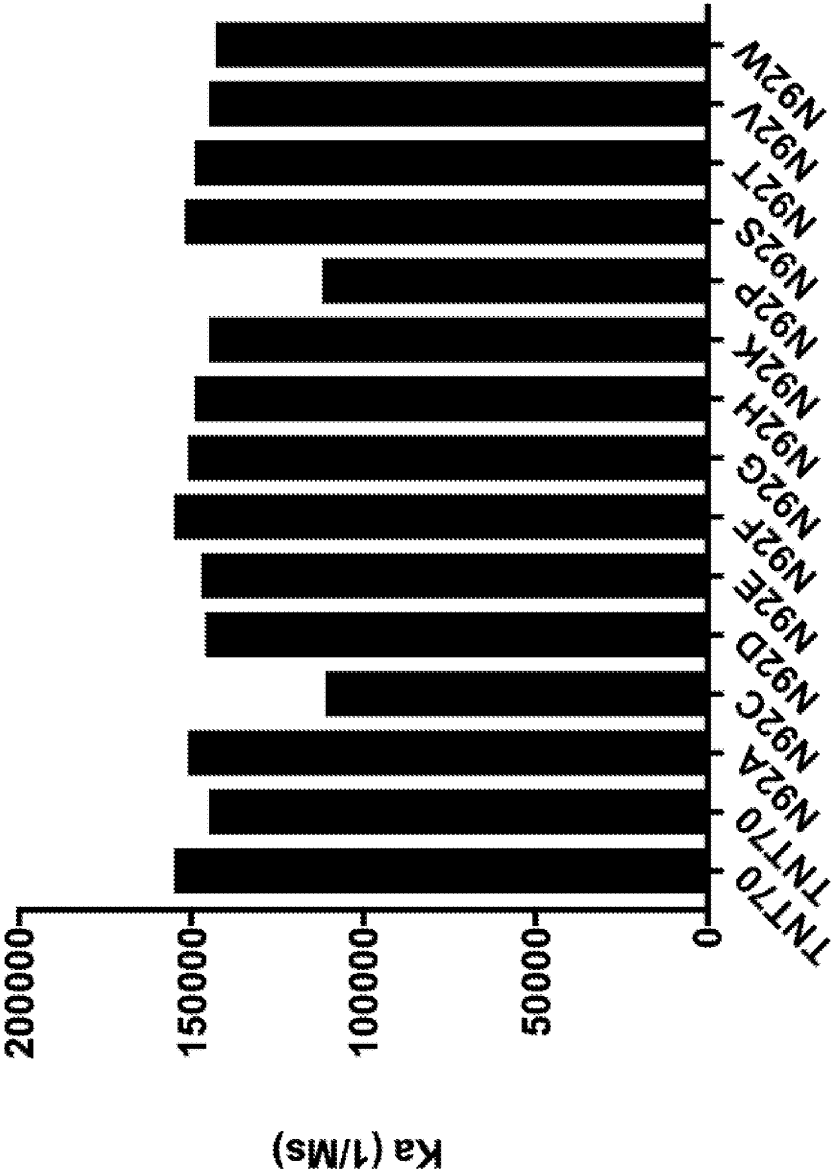


FIG. 15D

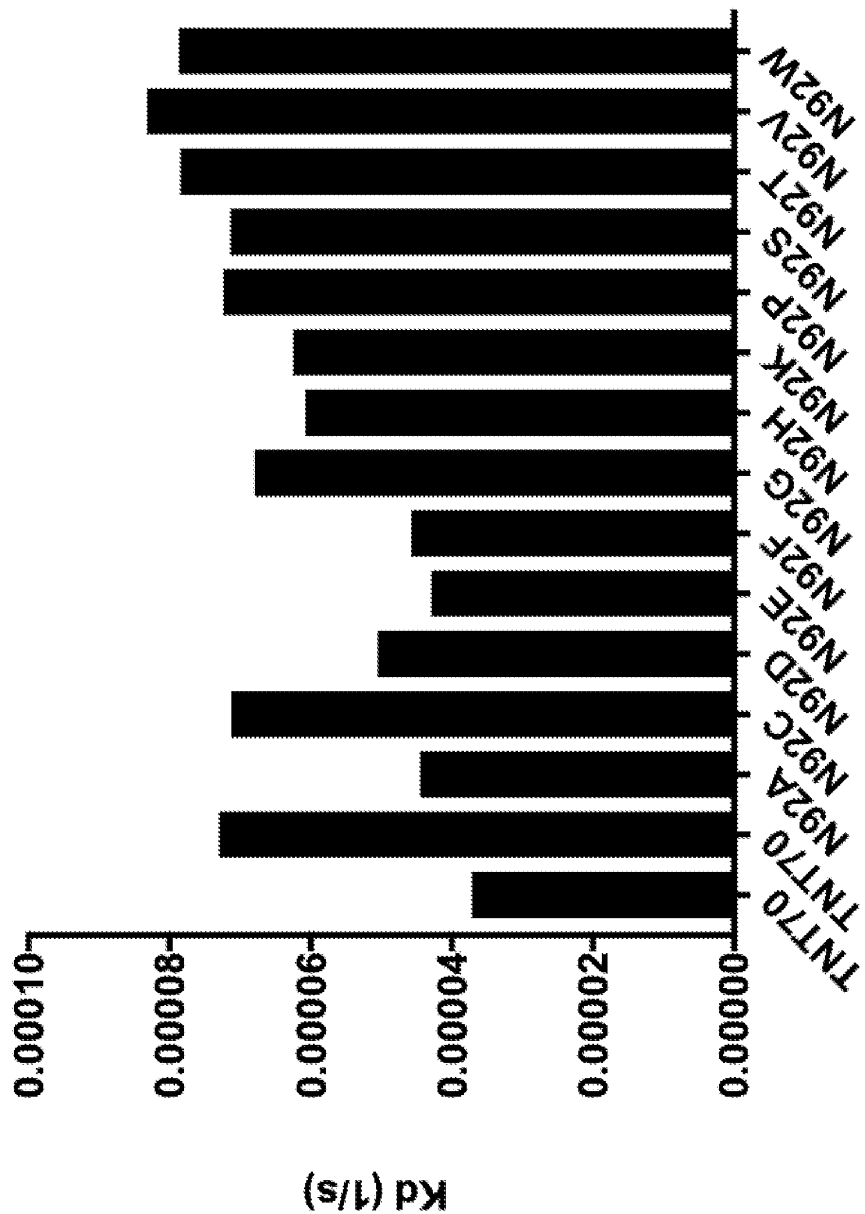


FIG. 15E

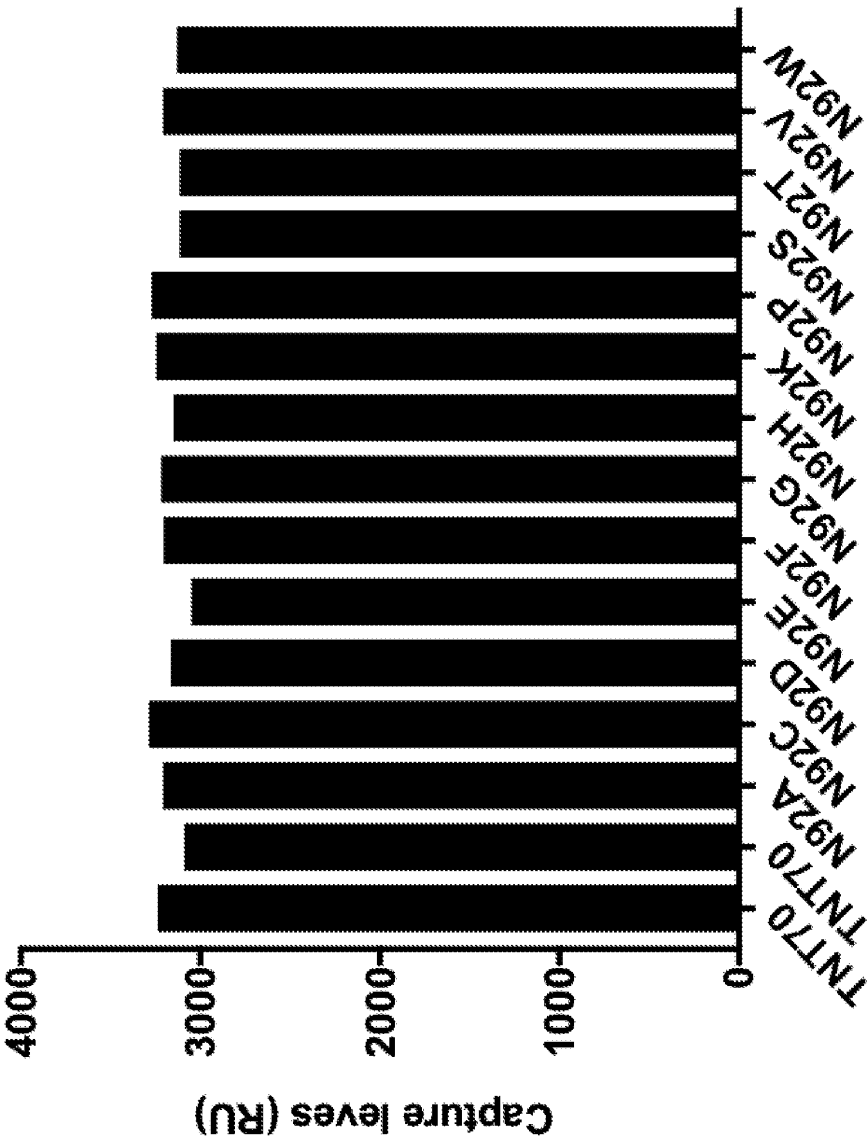


FIG. 15F

FIG. 16A. Engineered Q-tag (RPQGF)

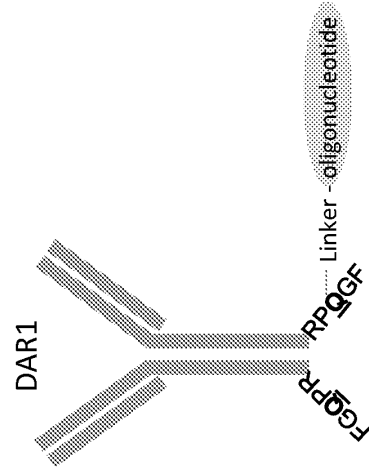


FIG. 16B. Engineered Q-tag (RPQGF)

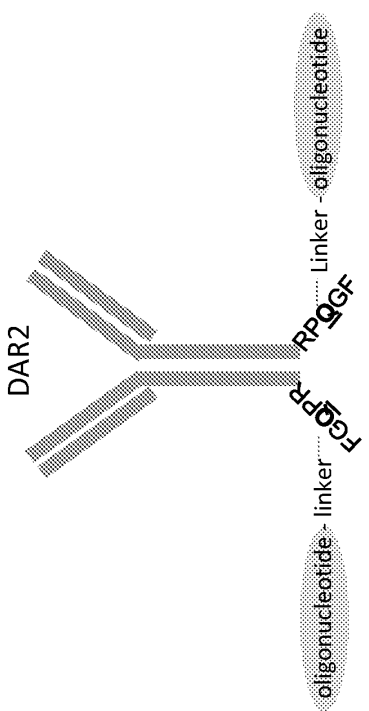


FIG. 16C. Naturally occurring Q-tag

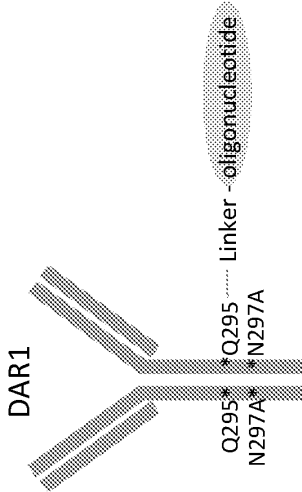
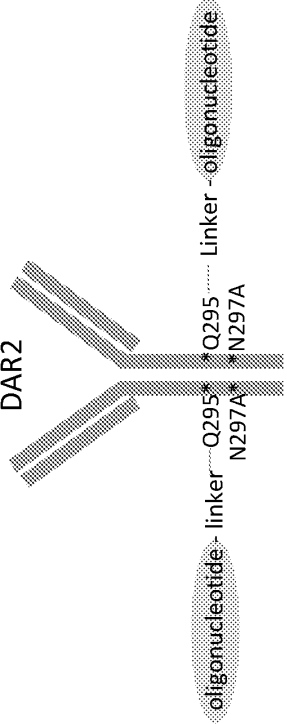


FIG. 16D. Naturally occurring Q-tag



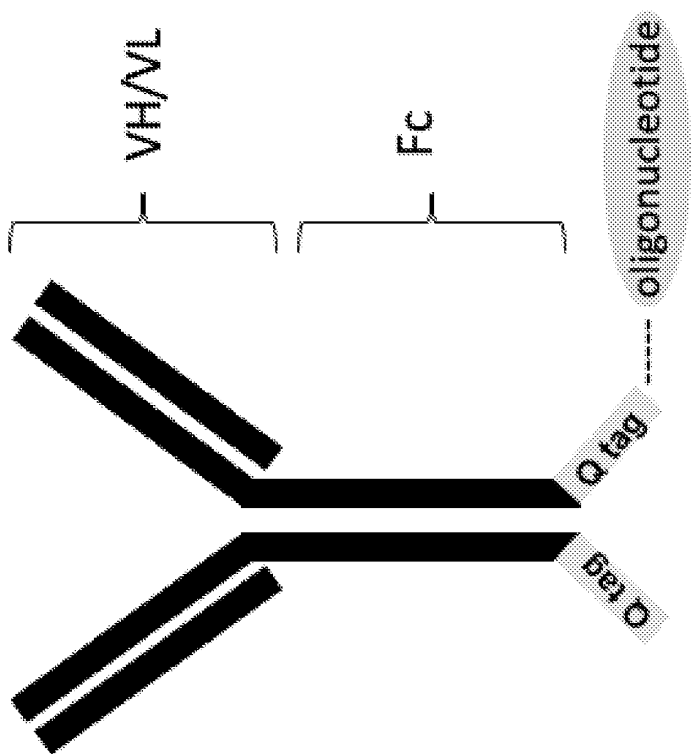


FIG. 16E

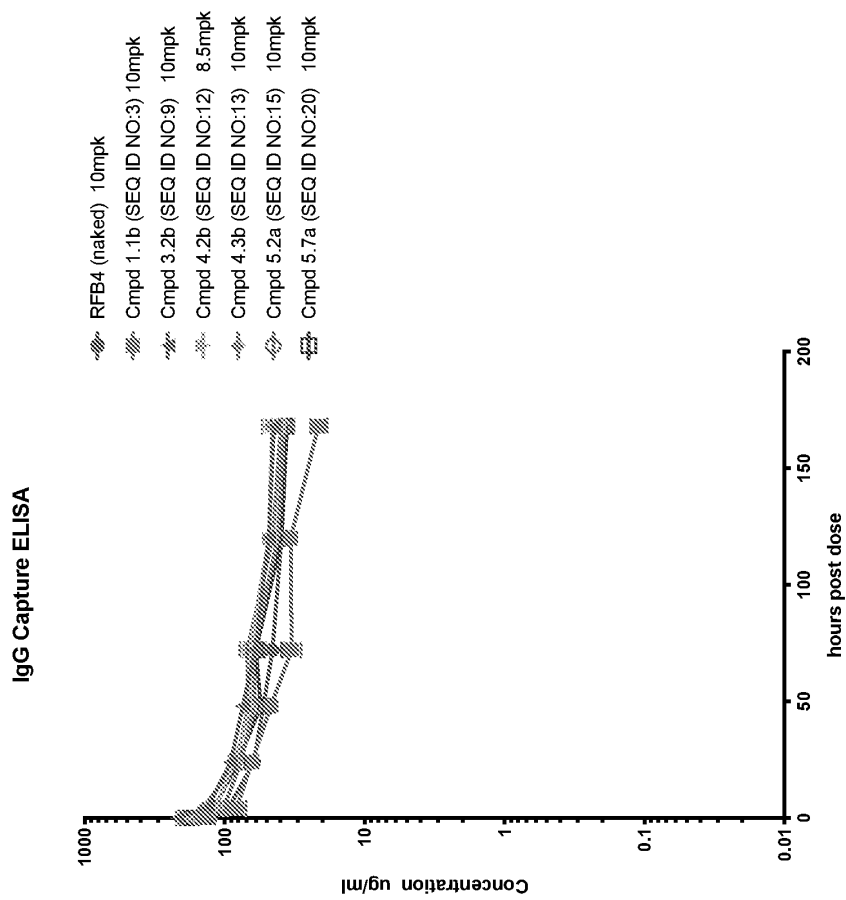


FIG. 17A

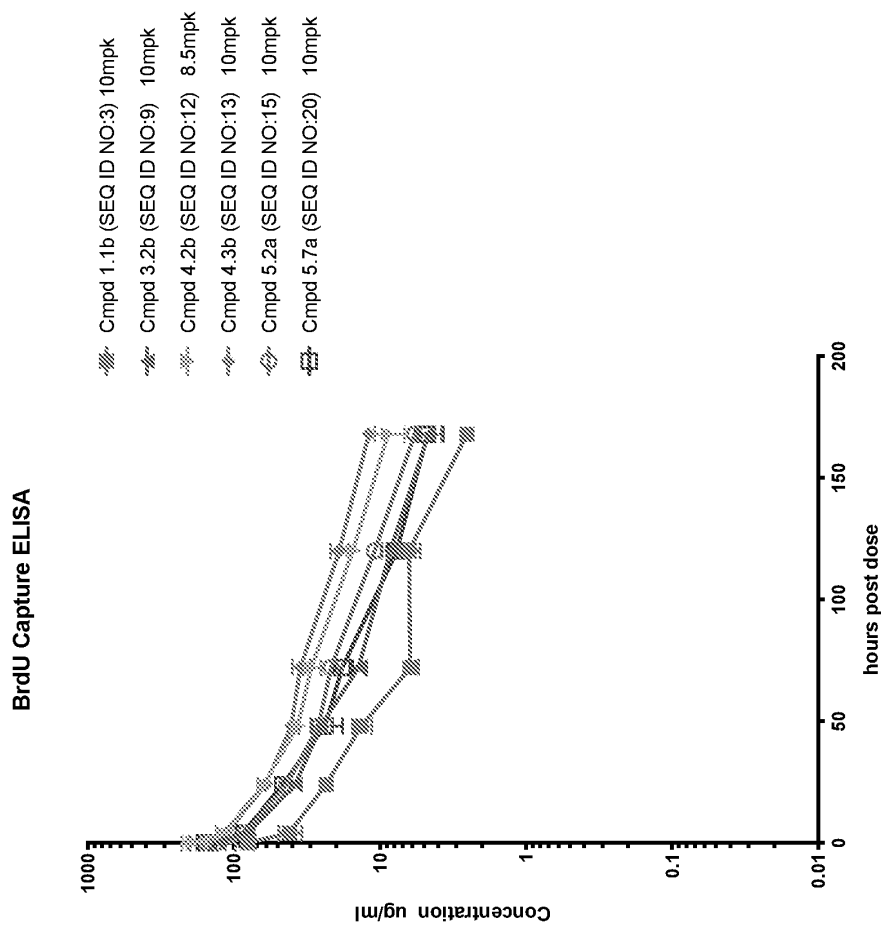


FIG. 17B

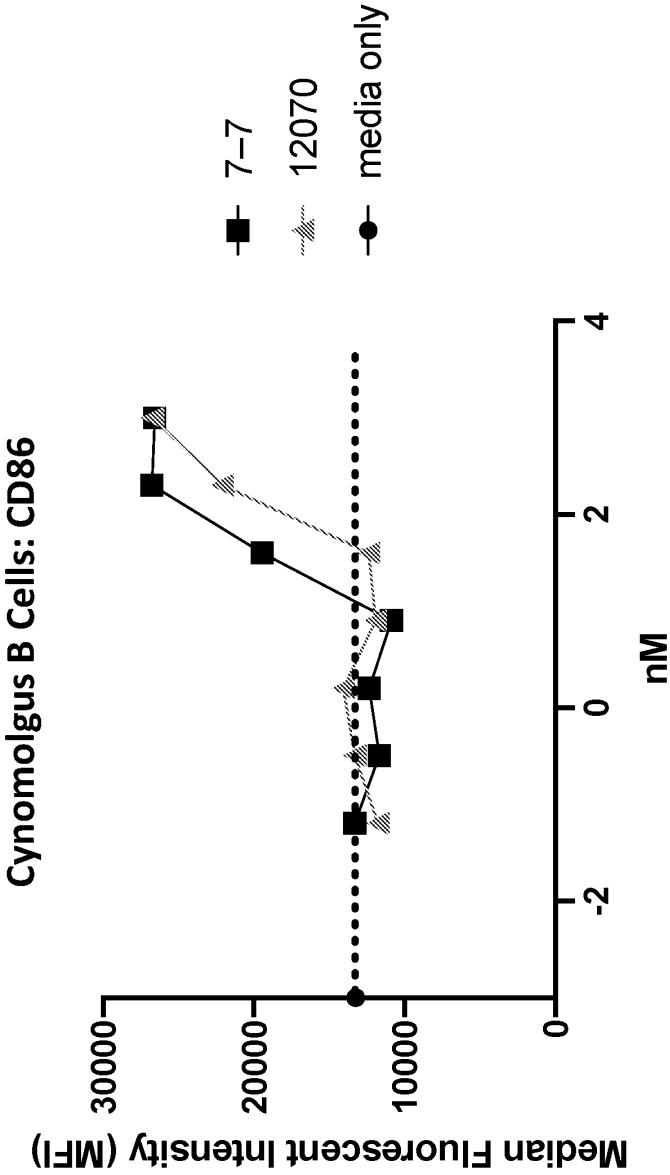


FIG. 18

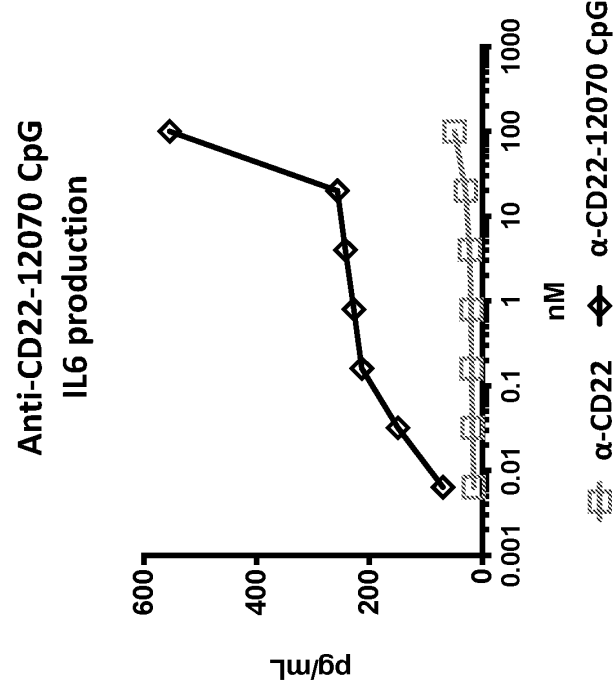


FIG. 19

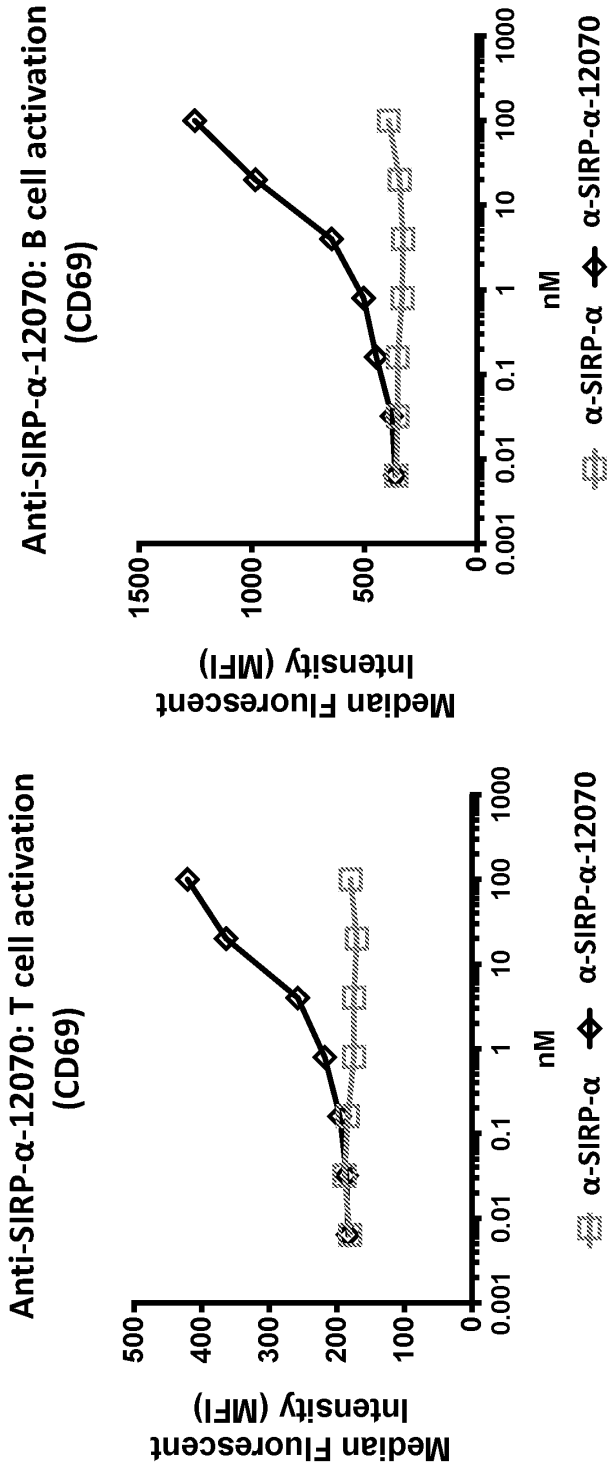


FIG. 20B

FIG. 20A

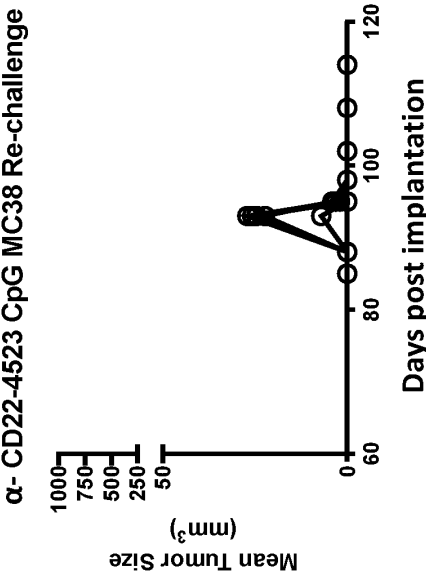
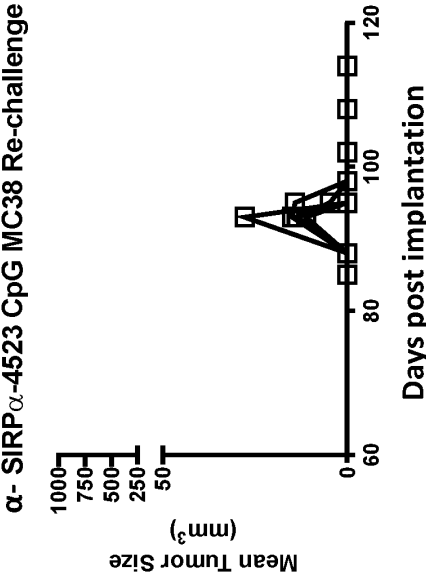
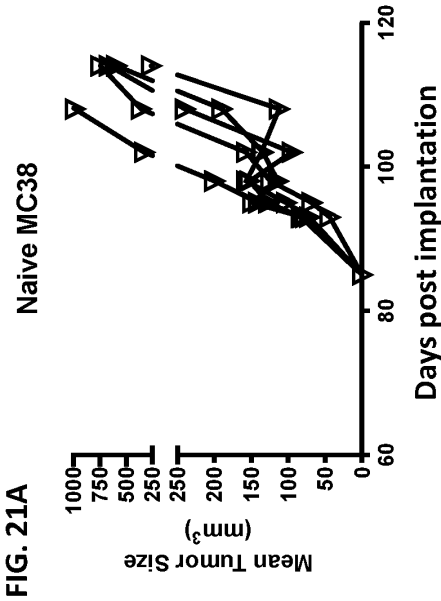


FIG. 22A

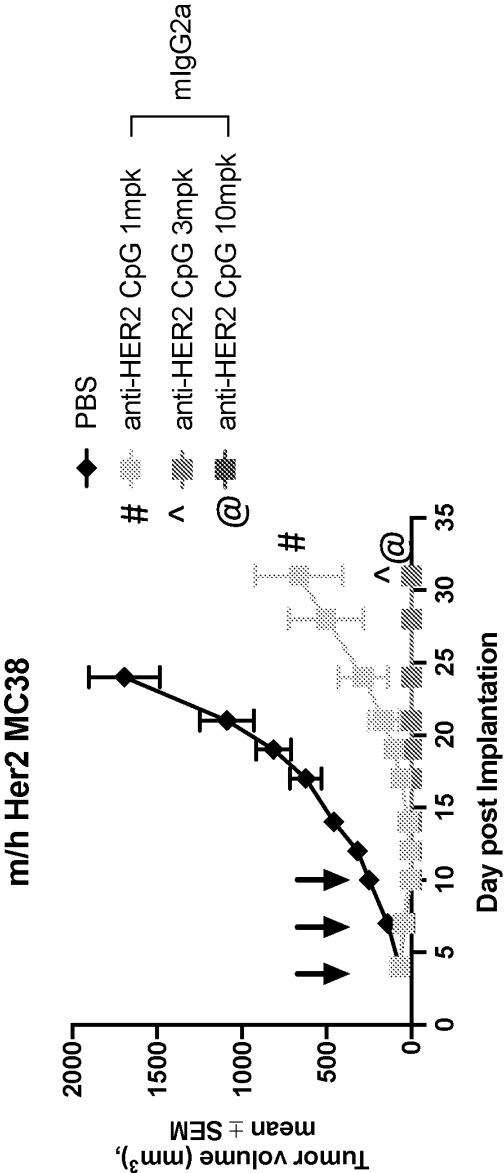


FIG. 22B

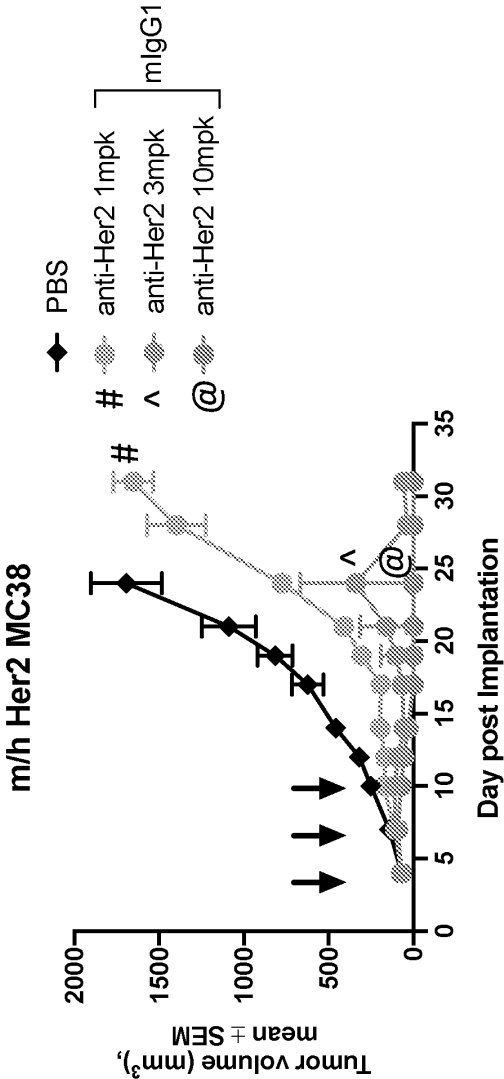


FIG. 22C

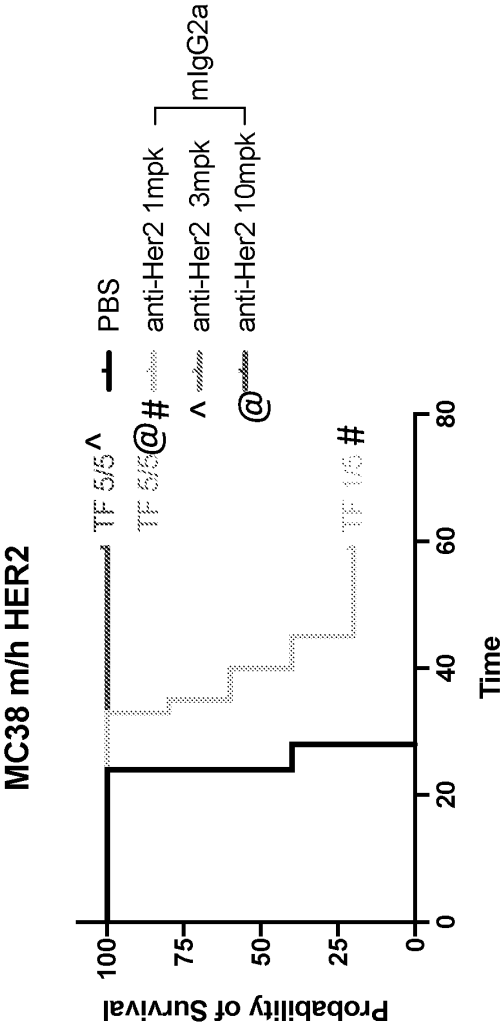
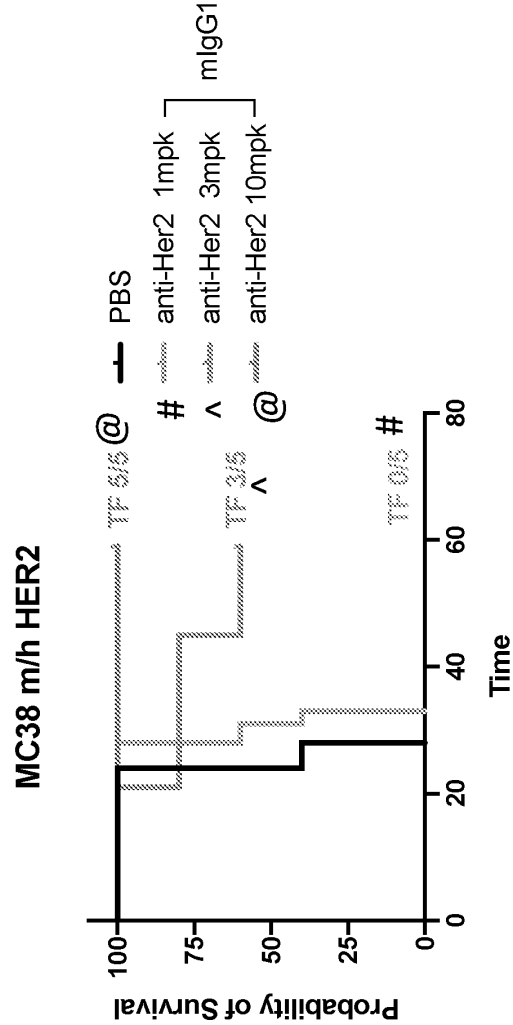


FIG. 22D



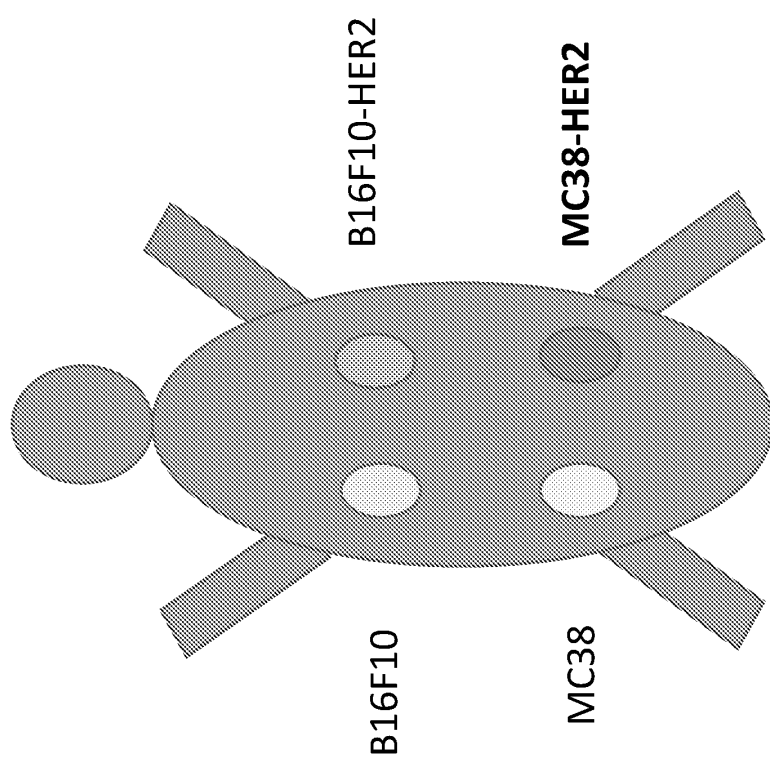


FIG. 23A

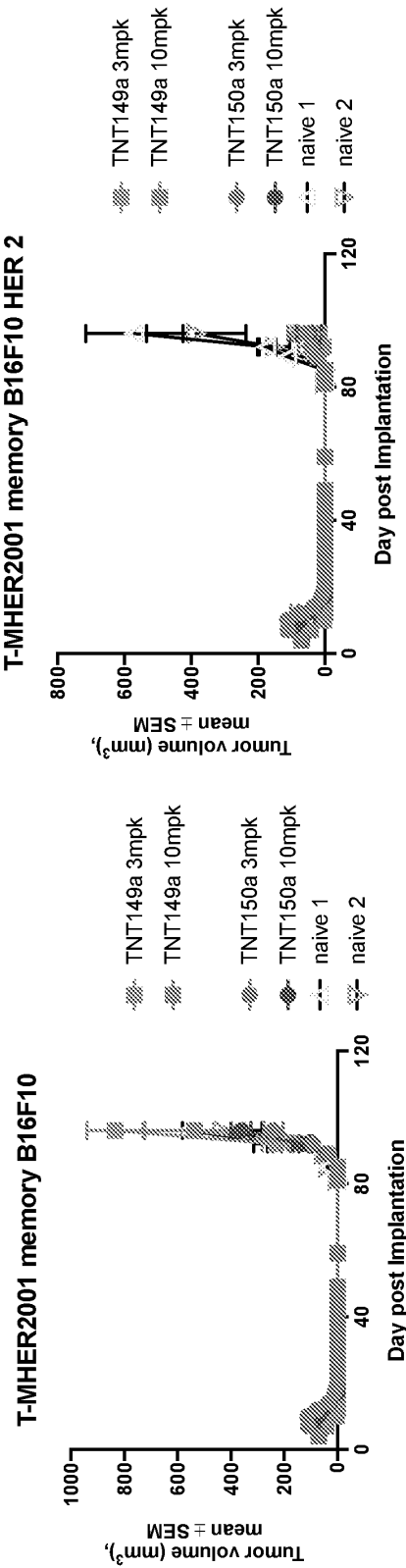


FIG. 23D

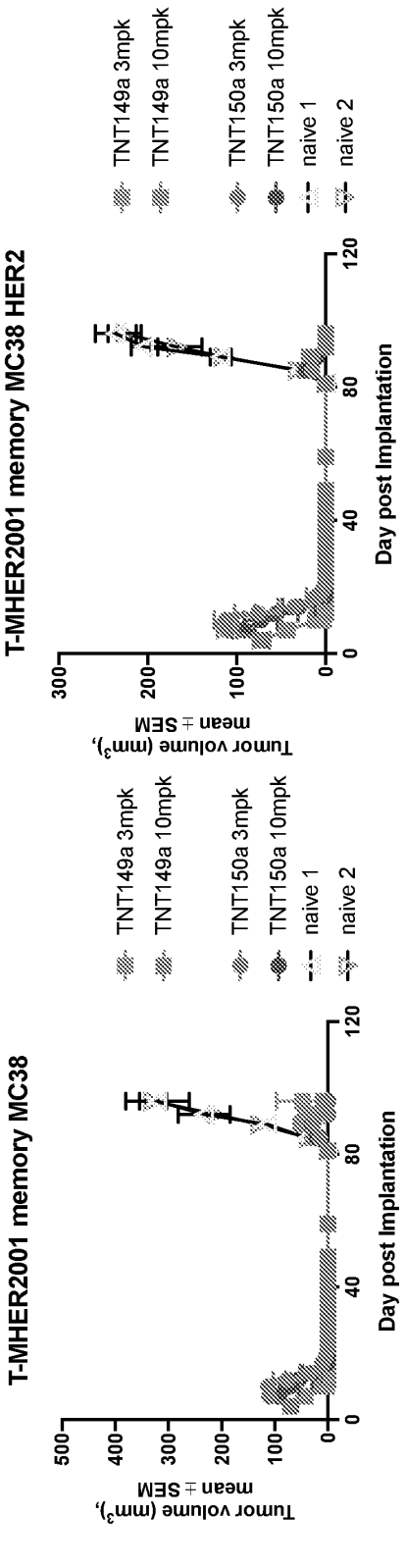


FIG. 23E

FIG. 23C

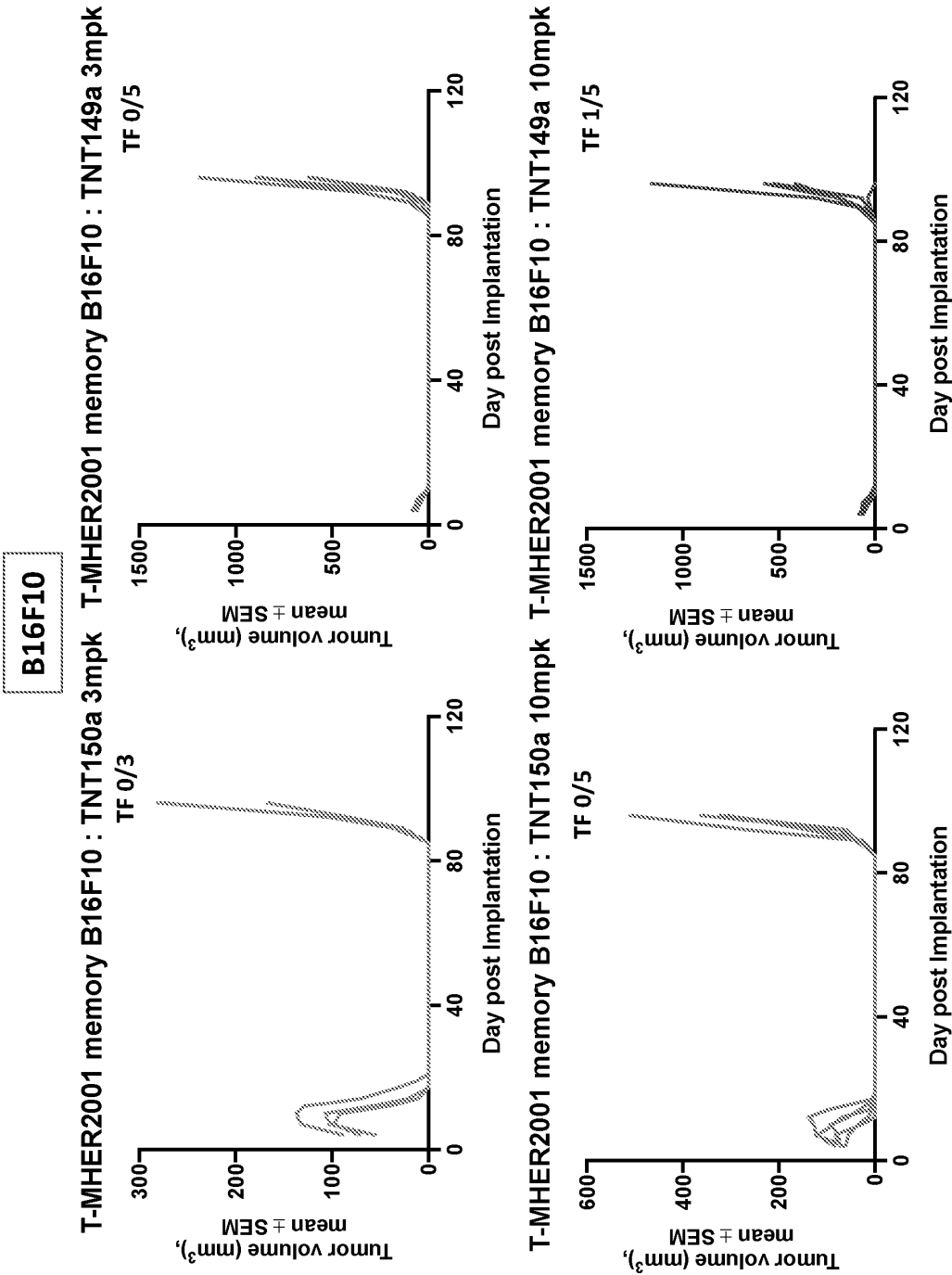


FIG. 23F

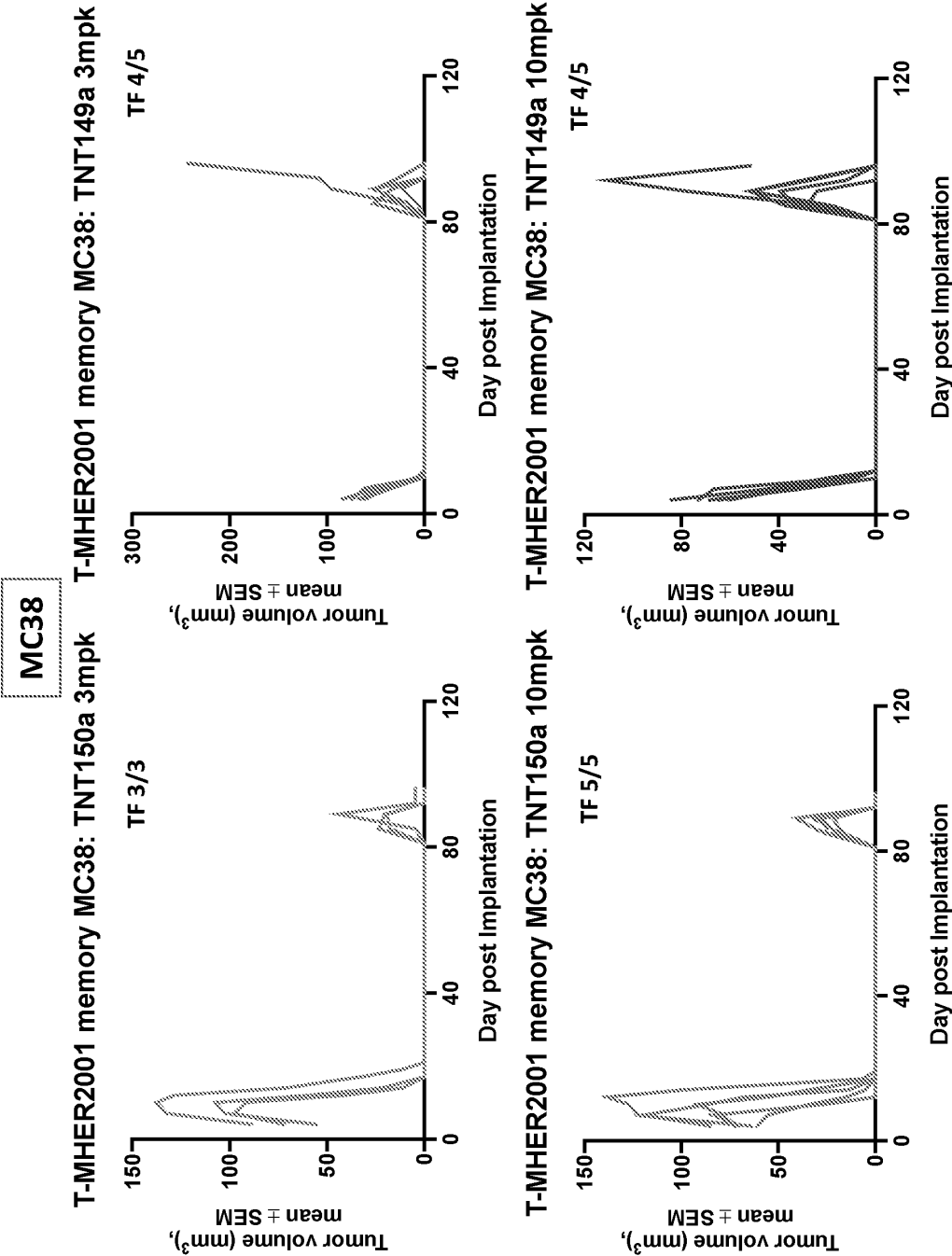


FIG. 23G

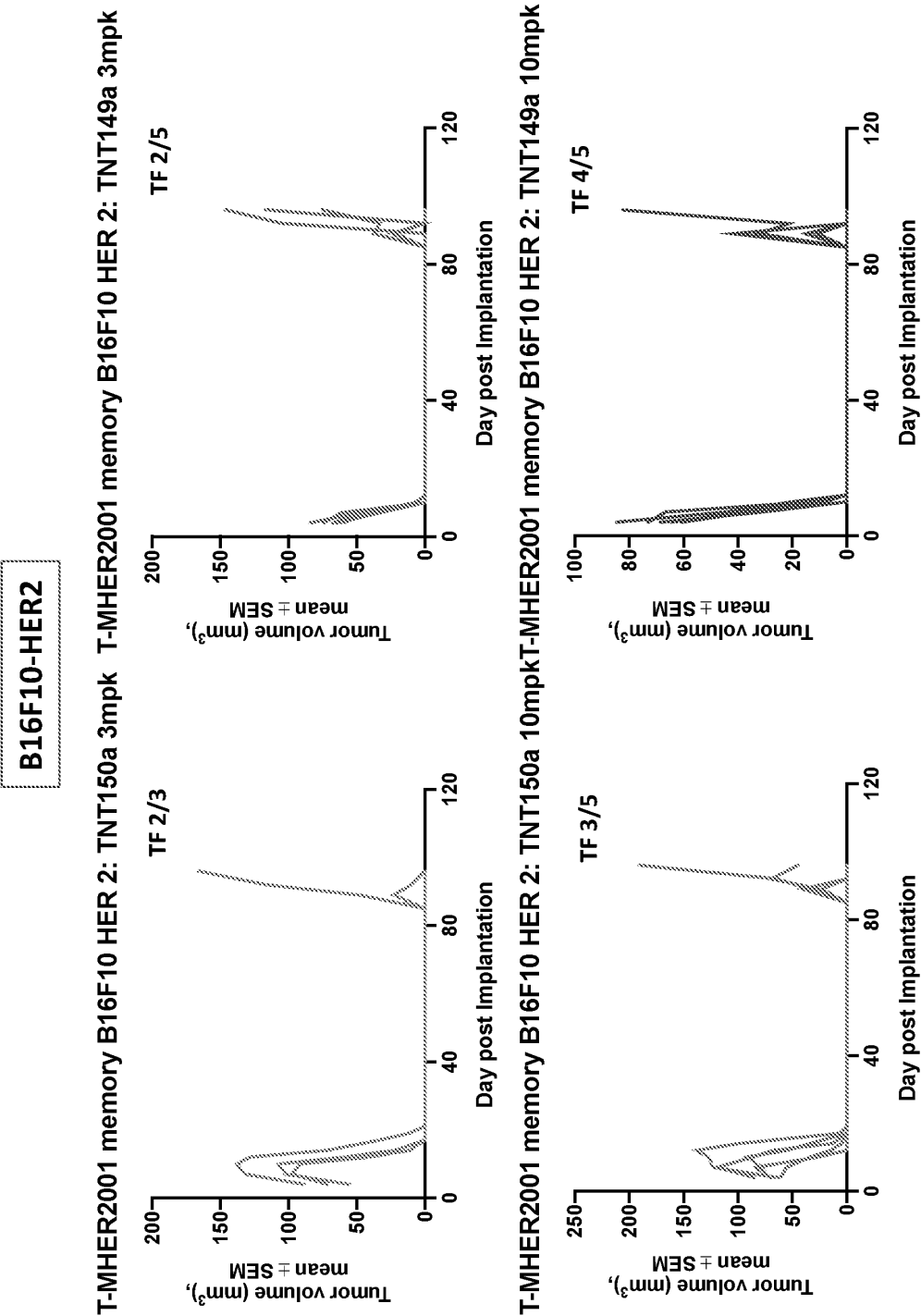


FIG. 23H

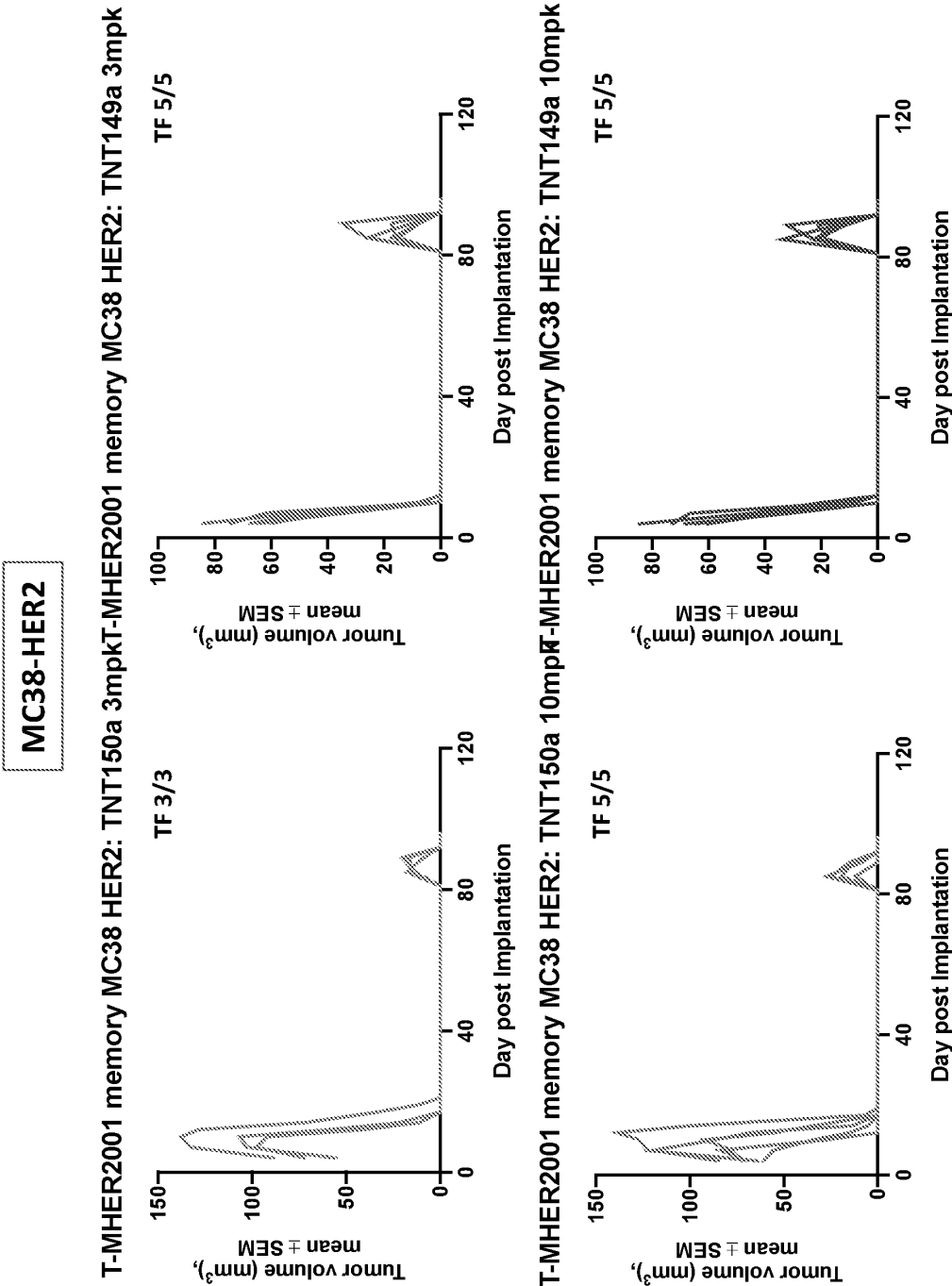


FIG. 23I

FIG. 24B

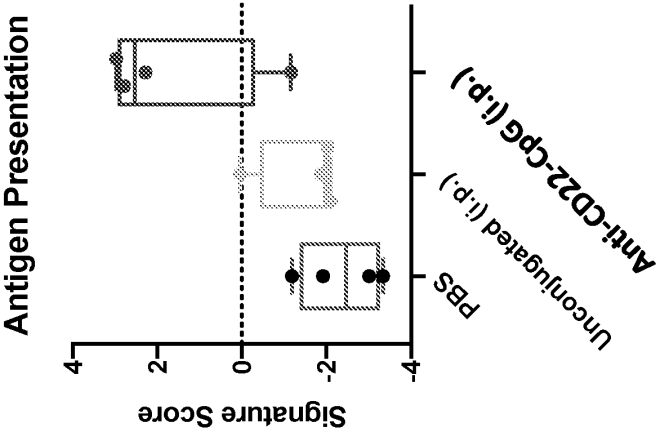


FIG. 24C

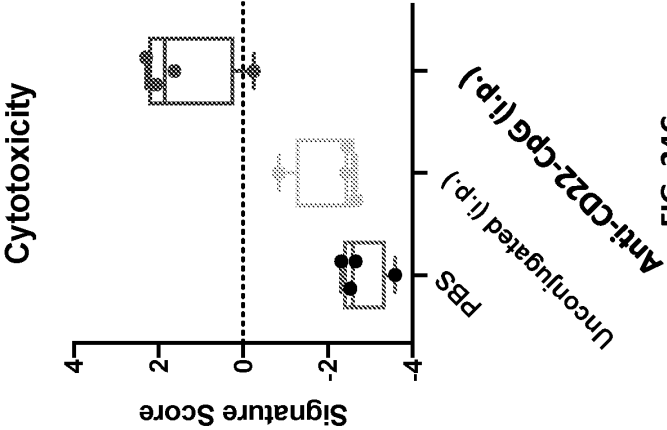
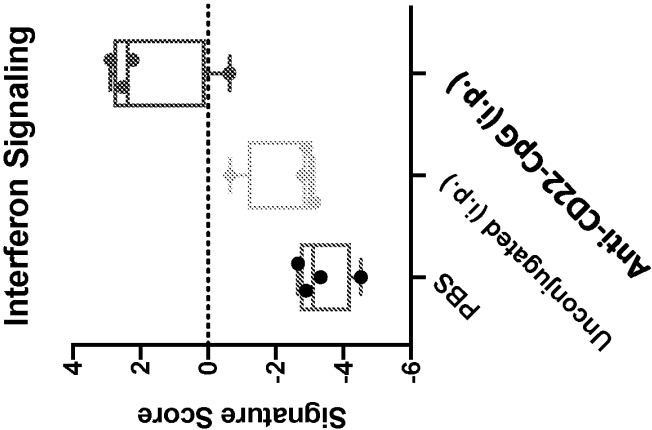


FIG. 24A



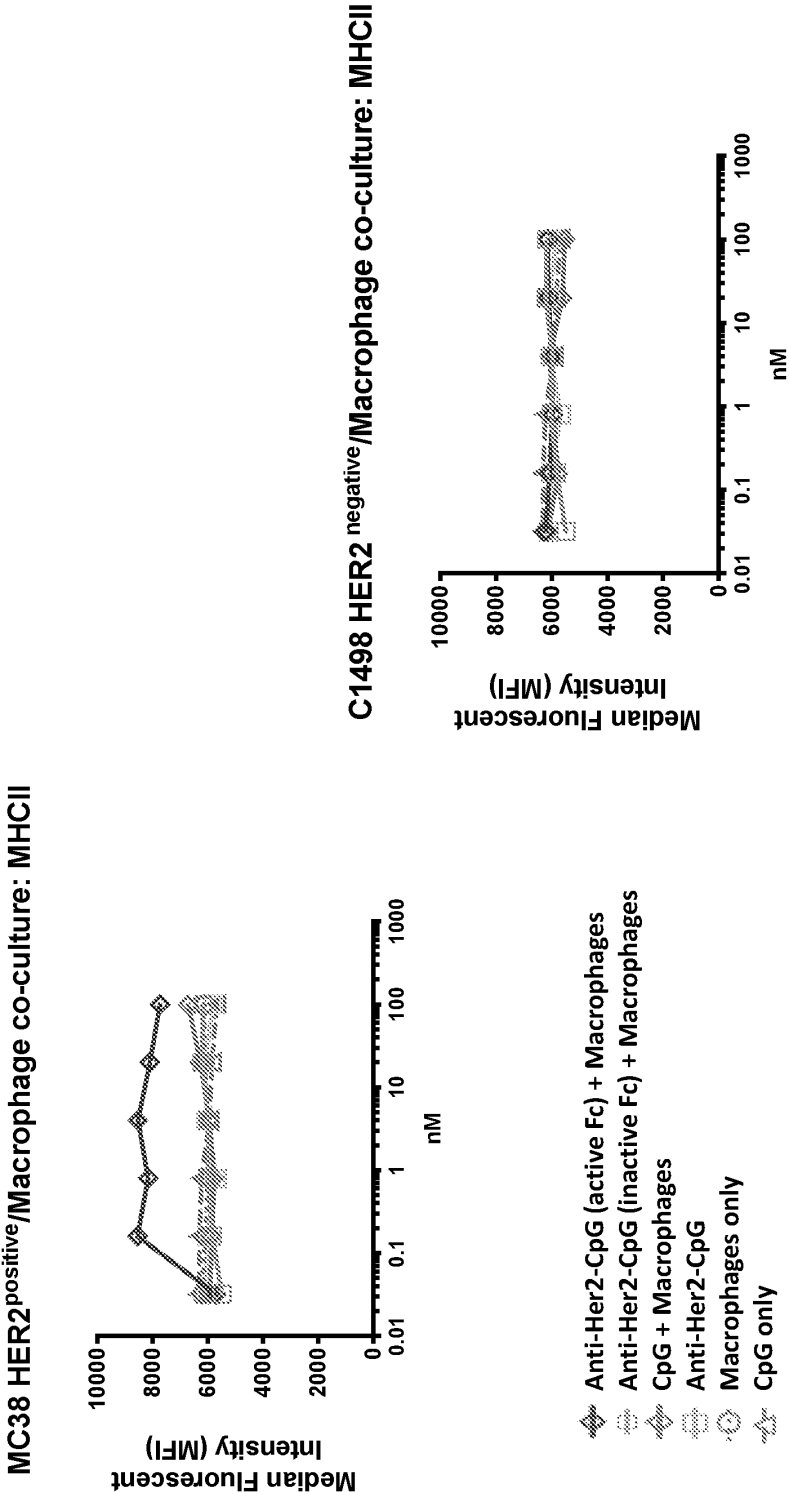
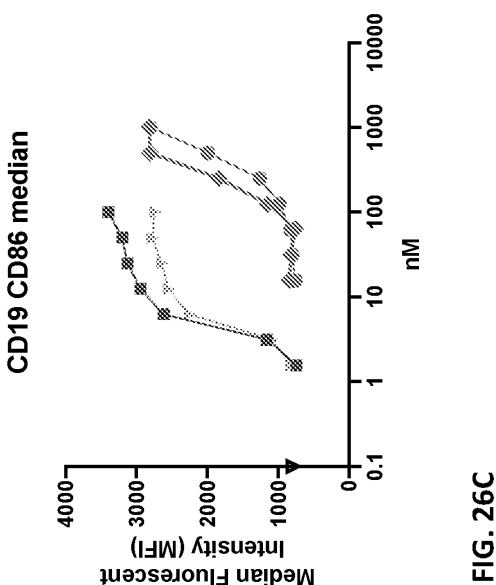
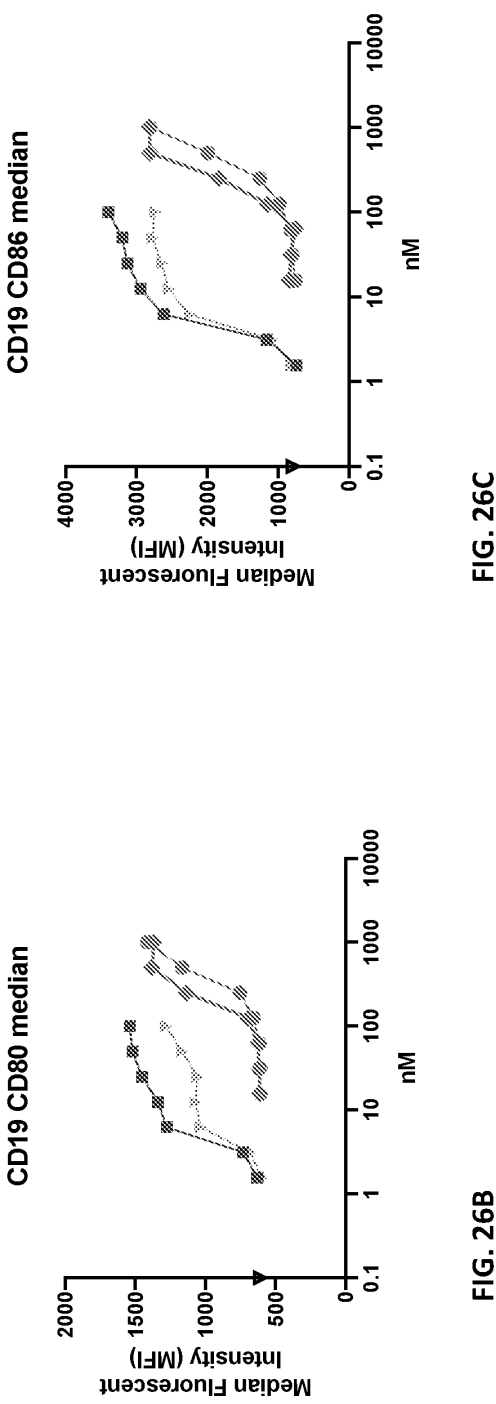
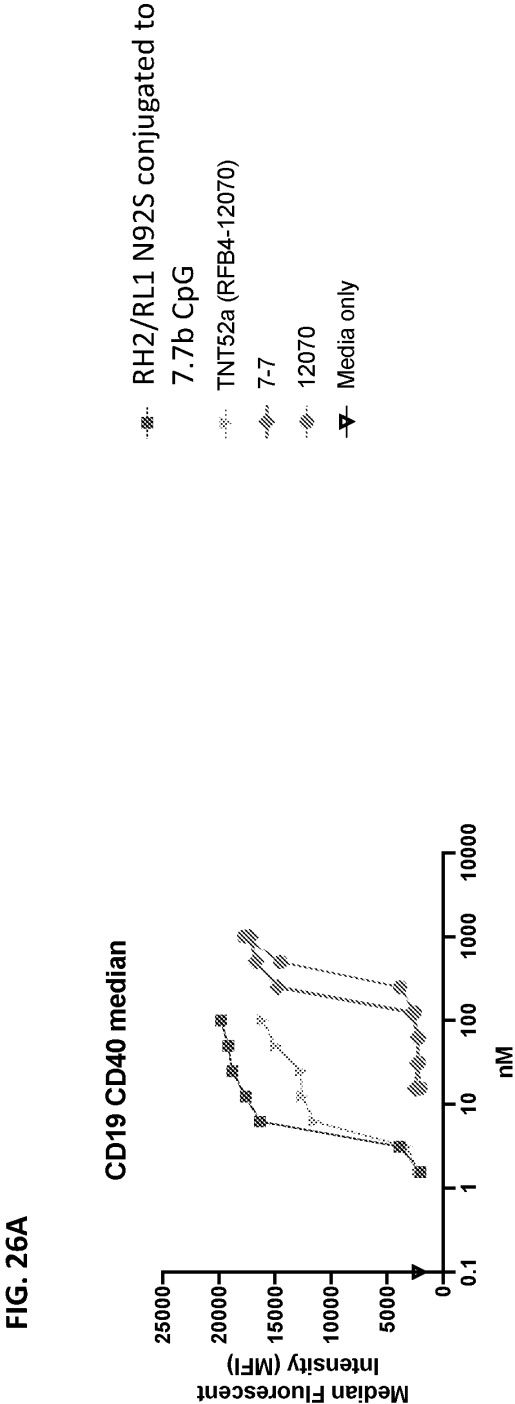


FIG. 25



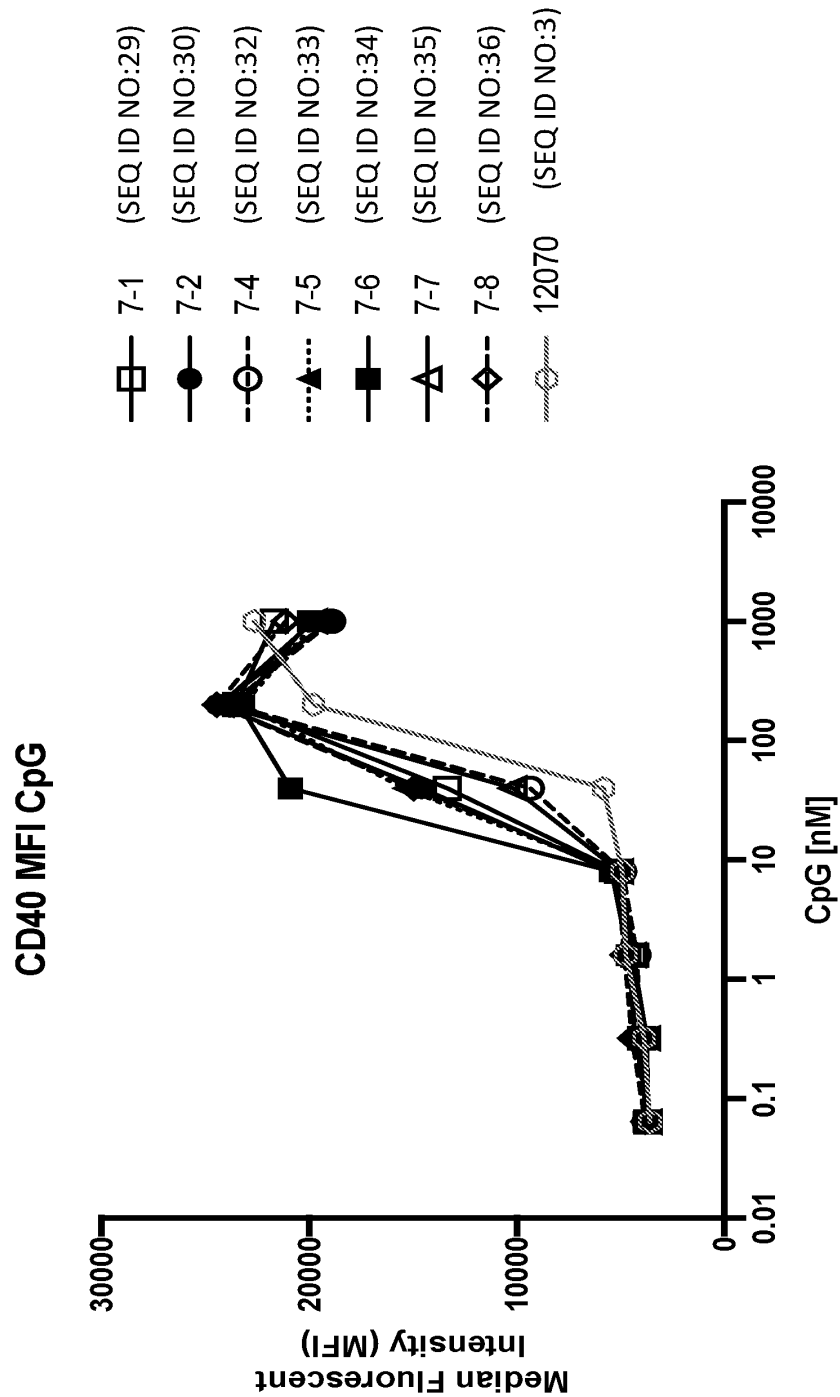


FIG. 27

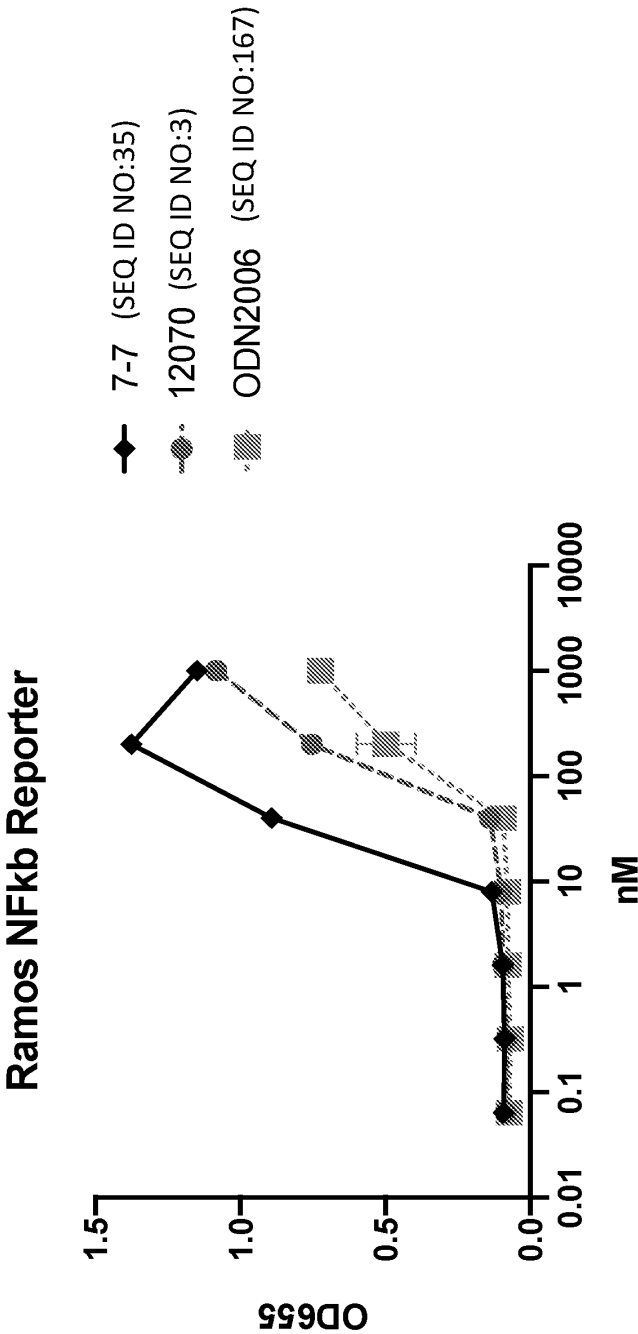


FIG. 28

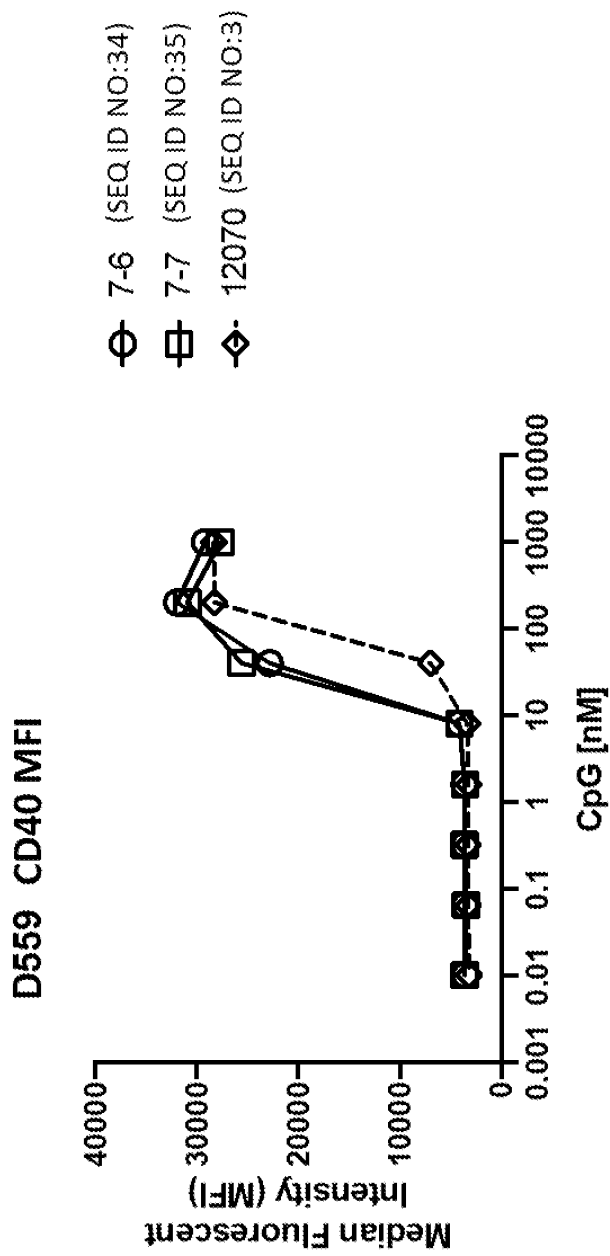


FIG. 29A

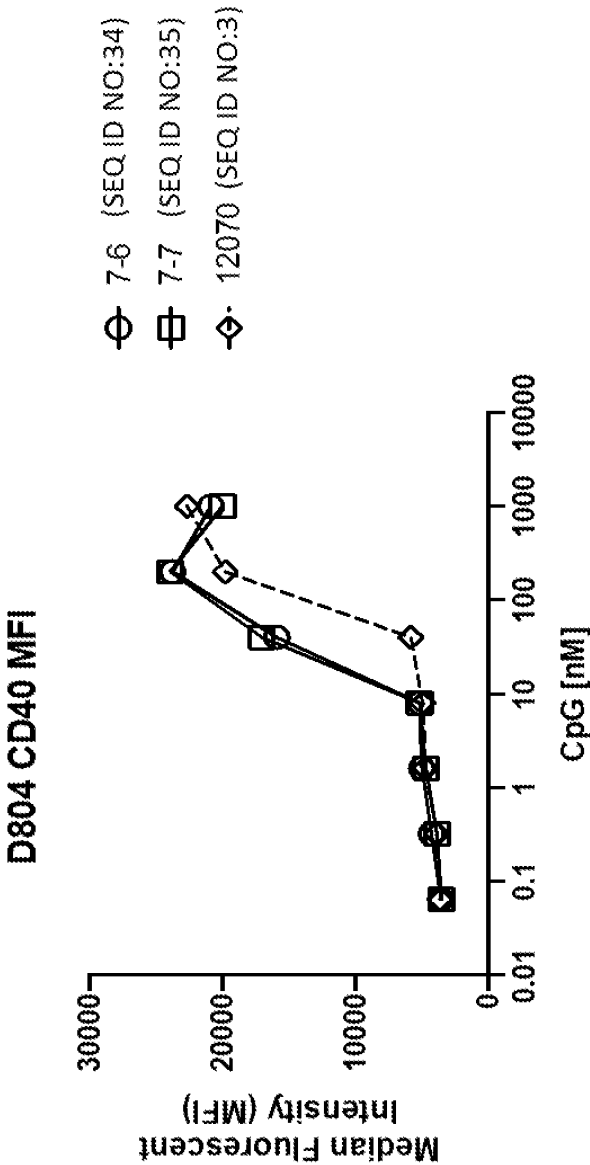


FIG. 29B

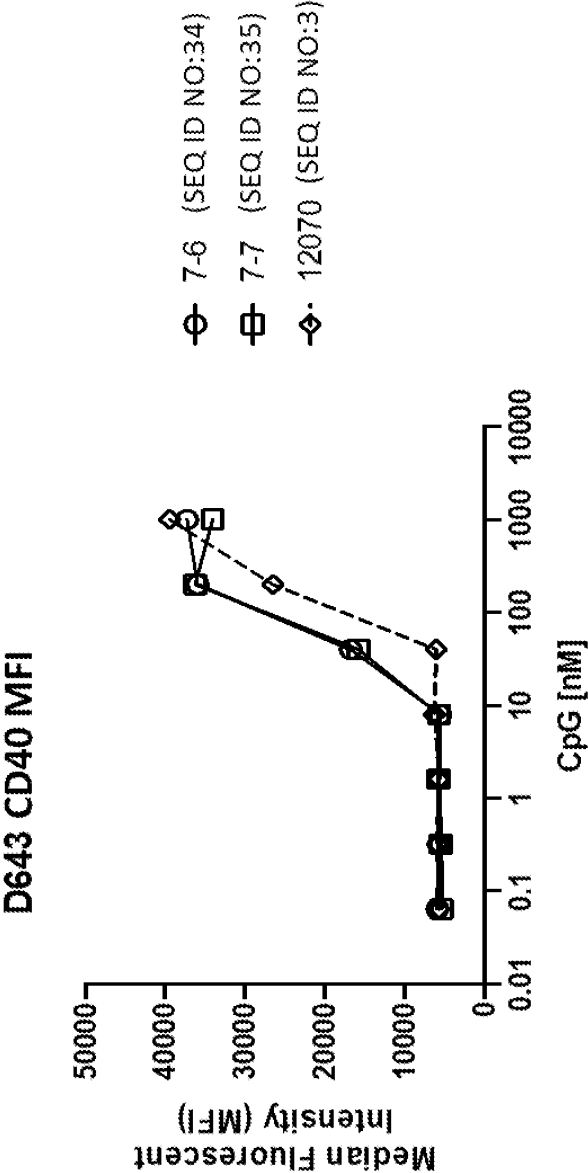


FIG. 29C

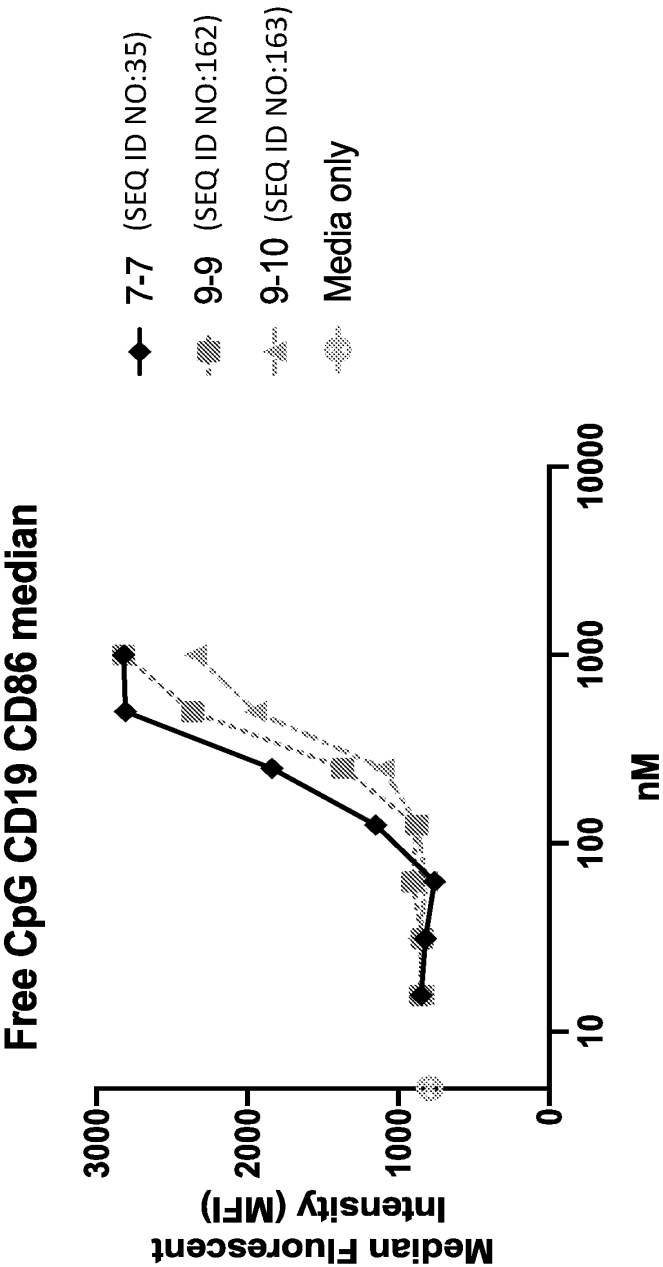


FIG. 30

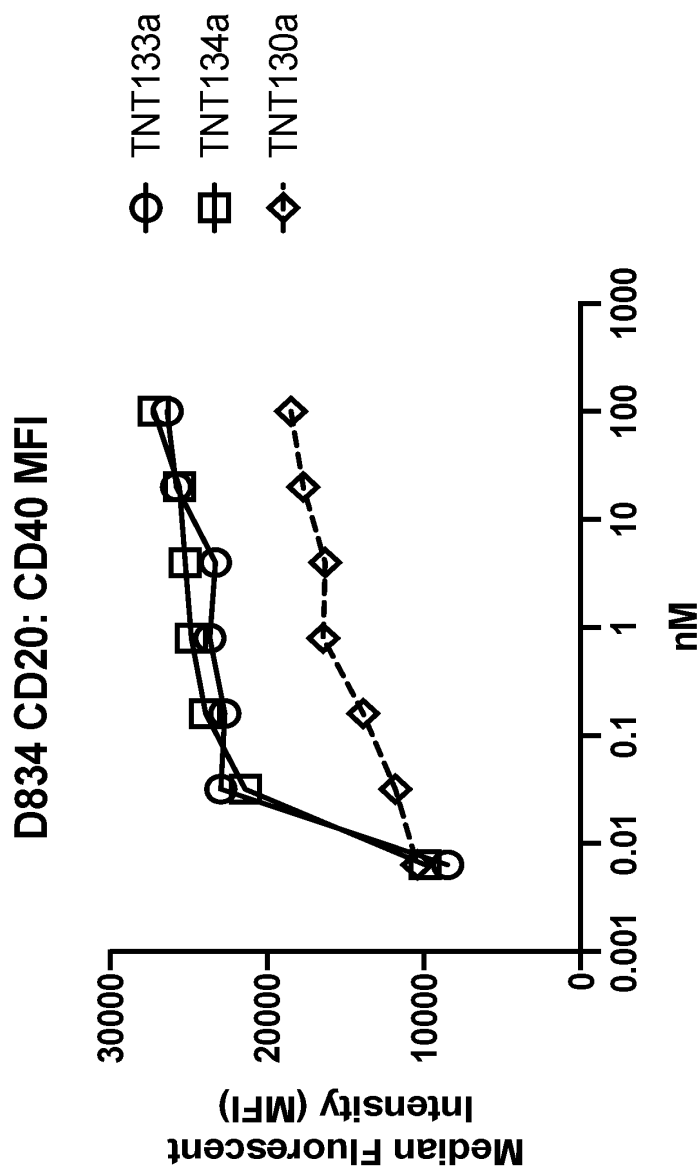


FIG. 31

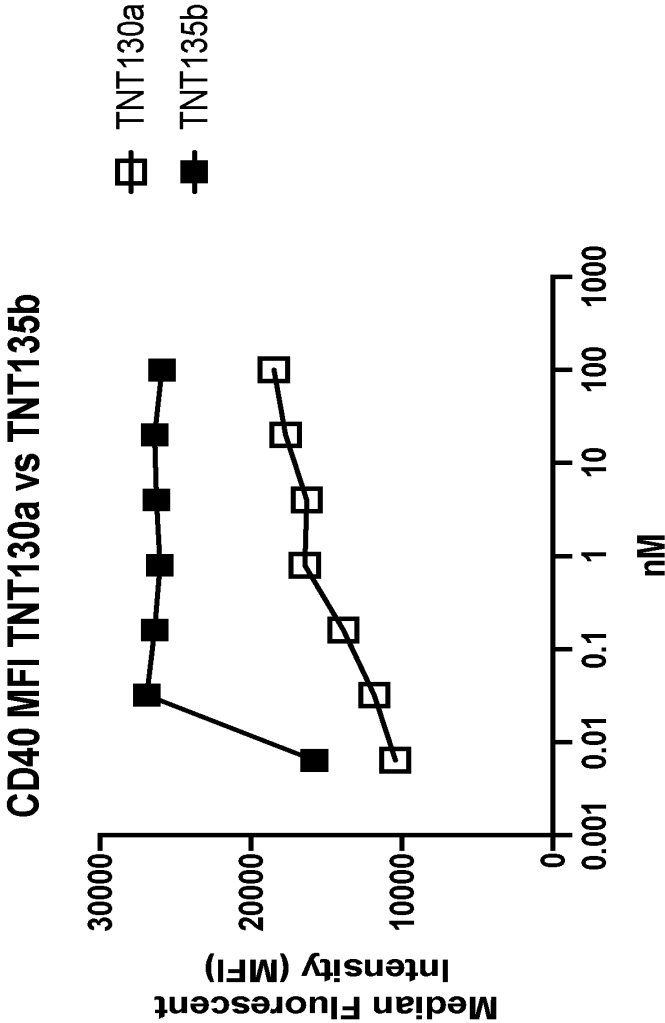


FIG. 32A

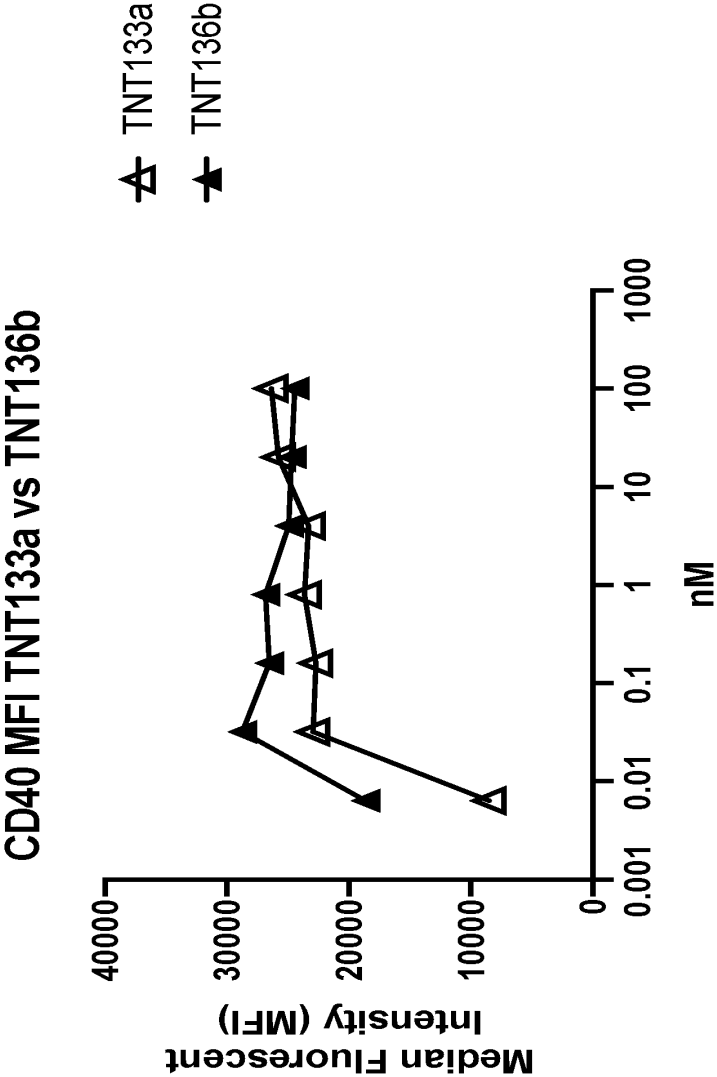


FIG. 32B

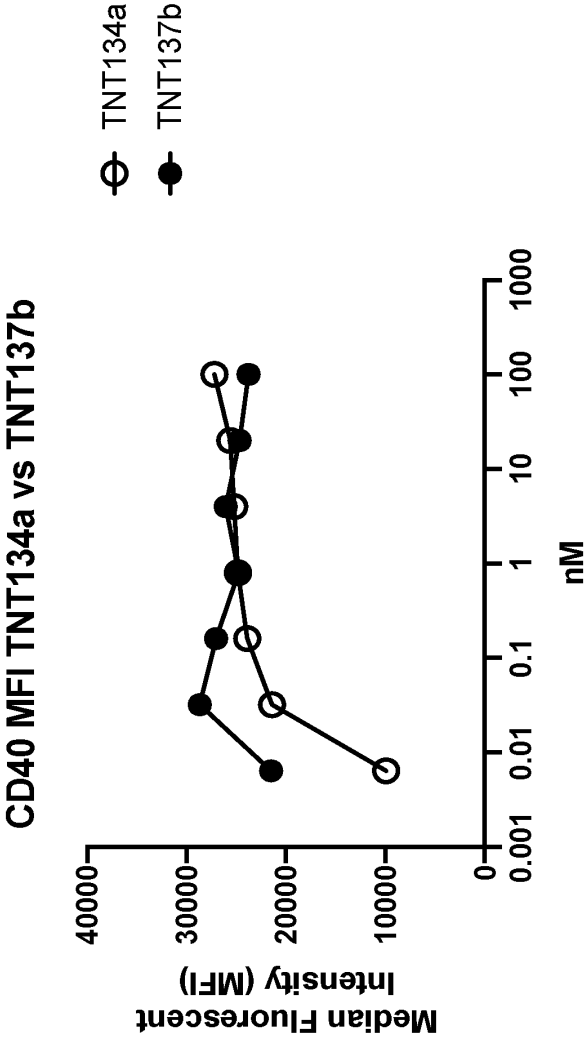


FIG. 32C

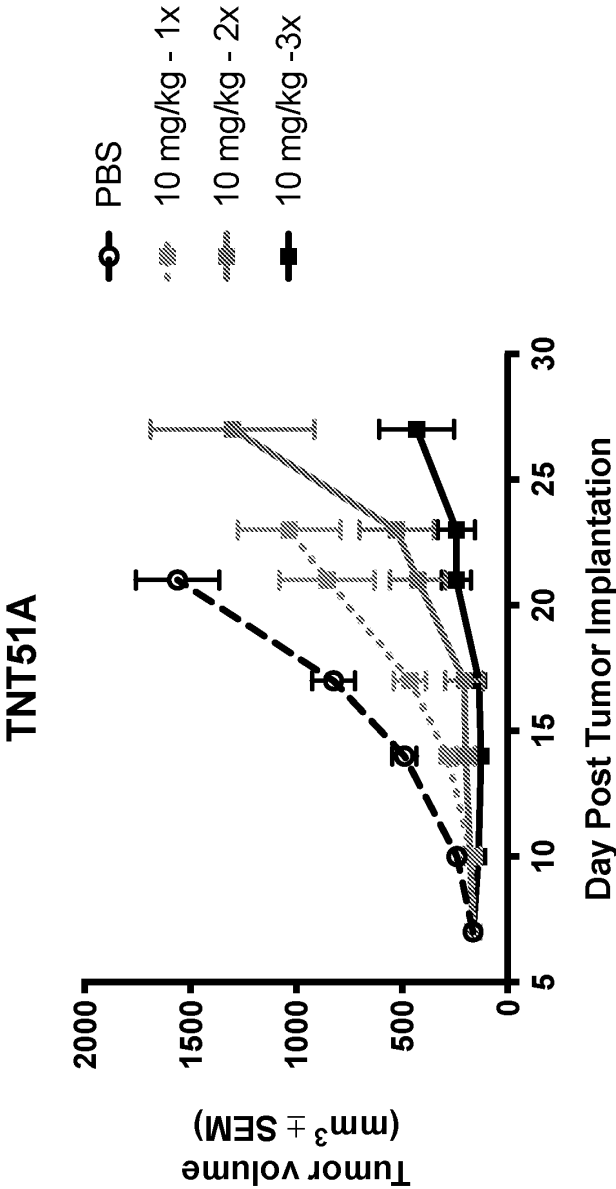


FIG. 33

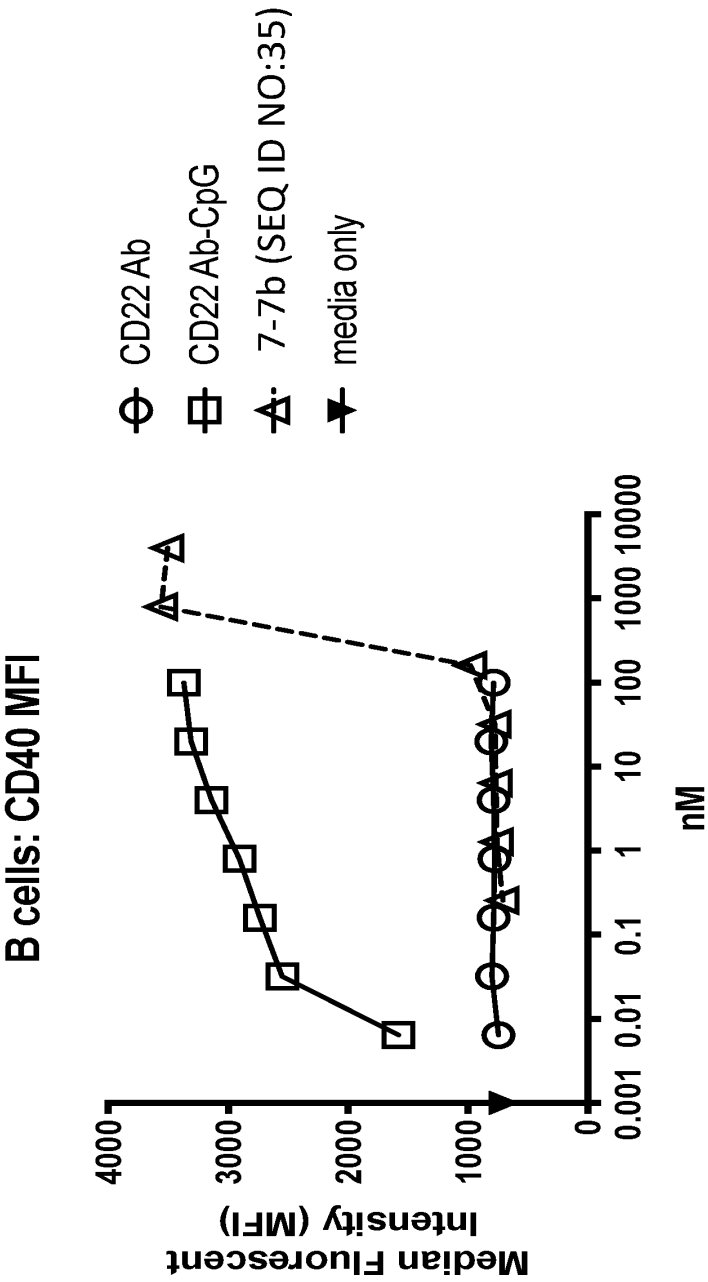


FIG. 34A

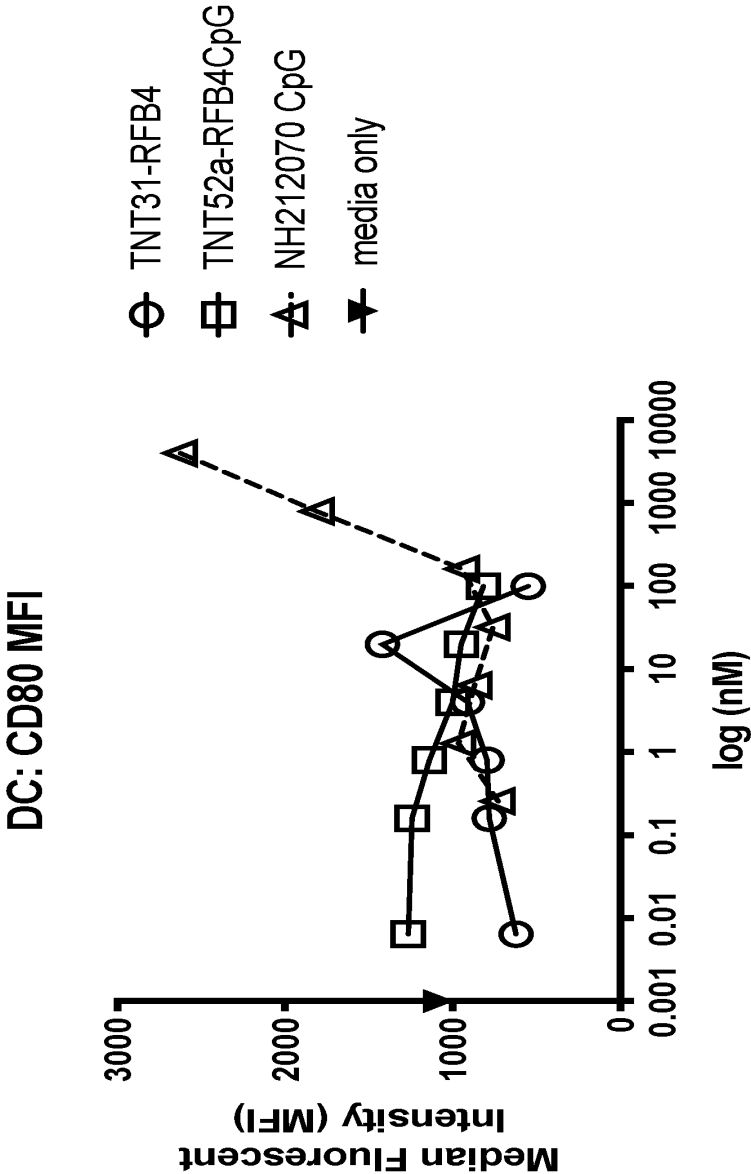


FIG. 34B

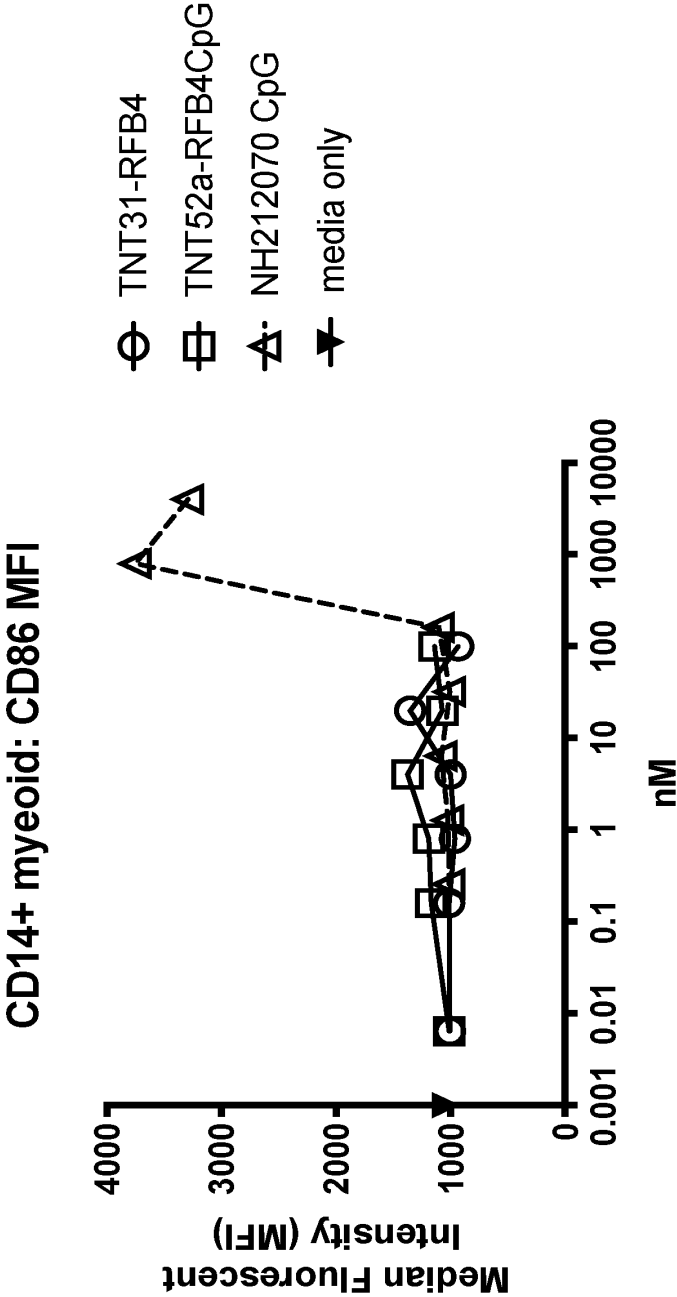


FIG. 34C

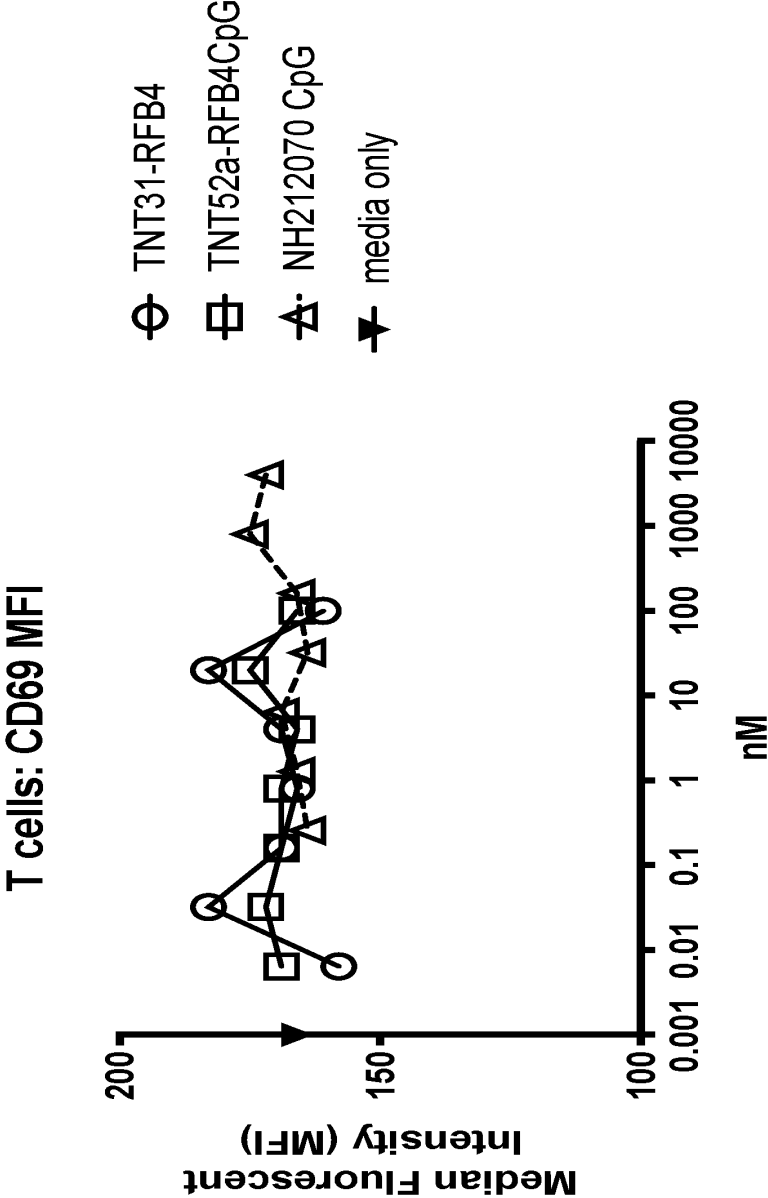


FIG. 34D

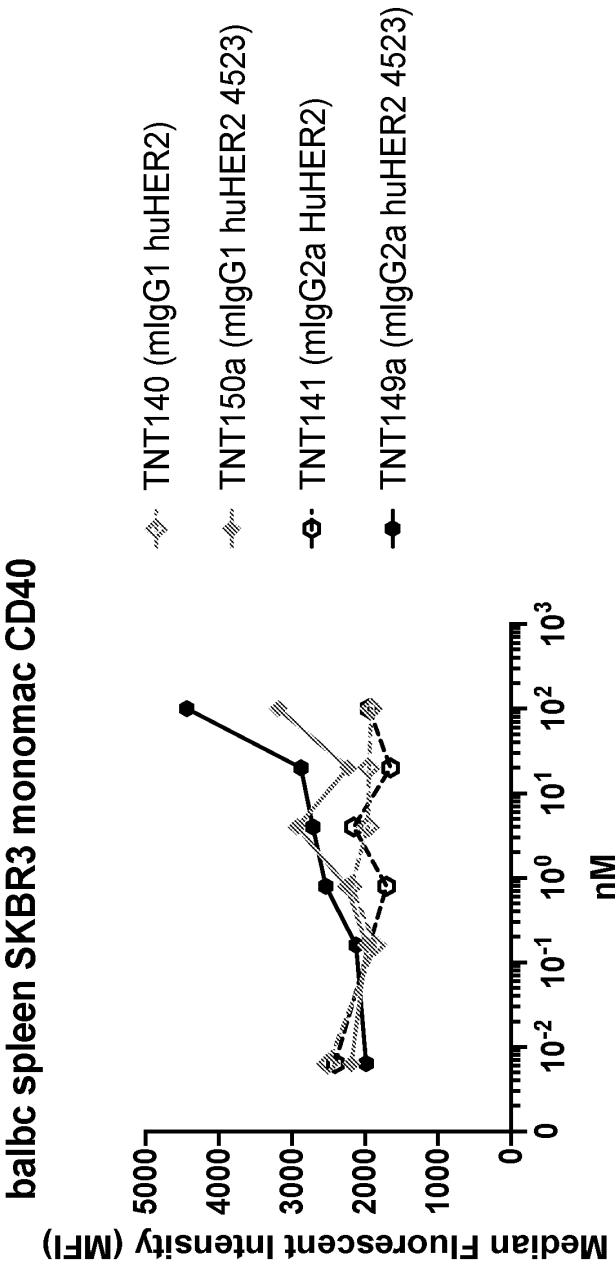


FIG. 35A

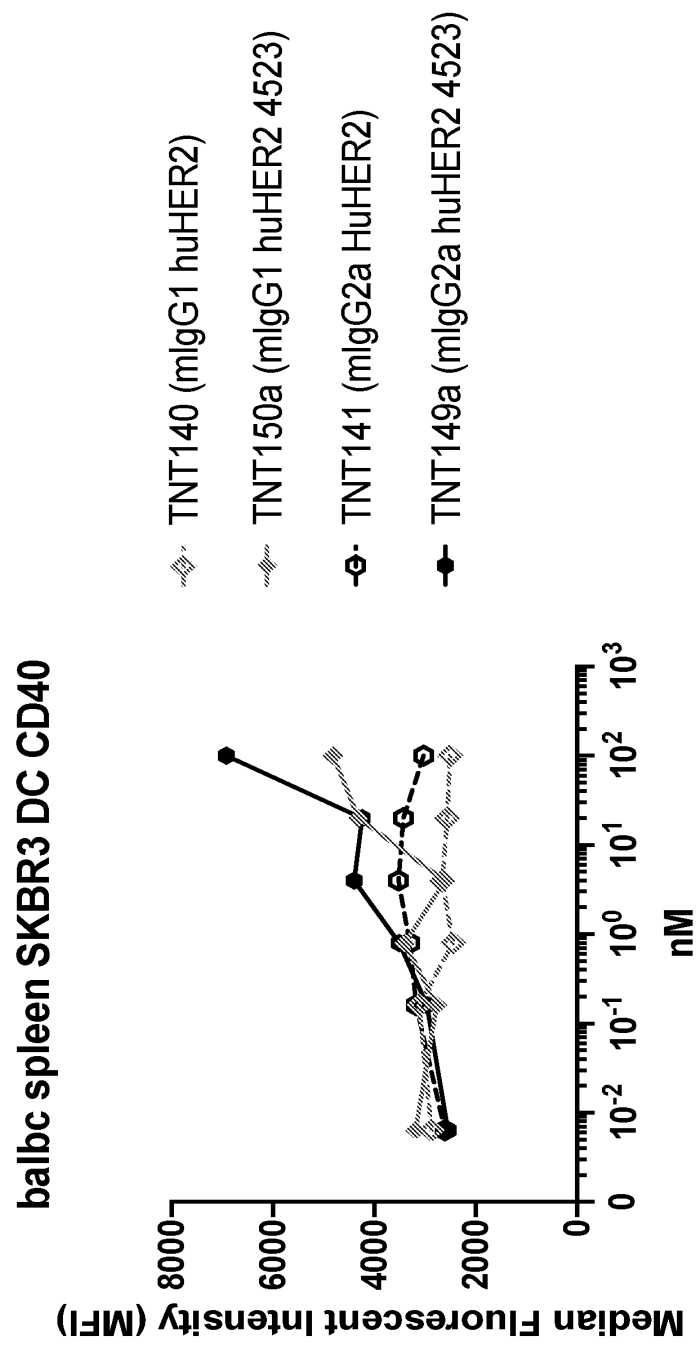


FIG. 35B

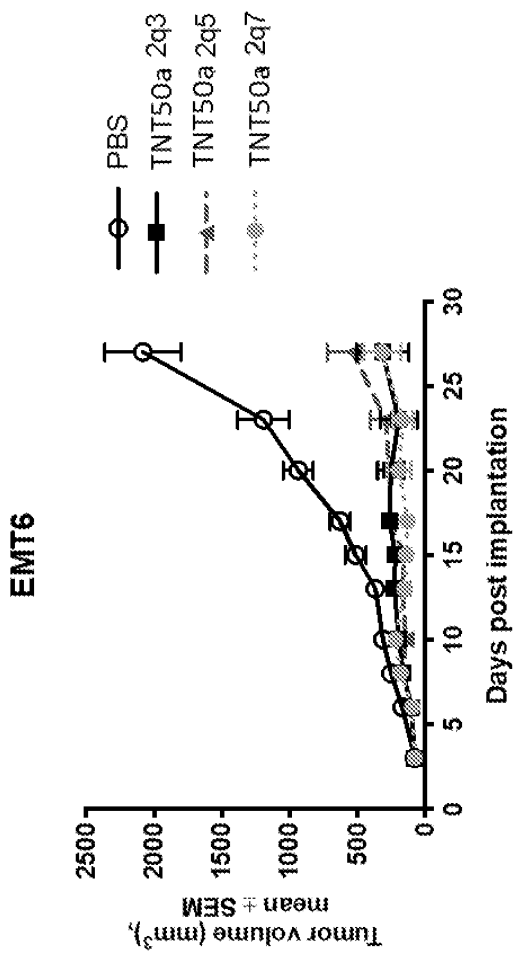


FIG. 36

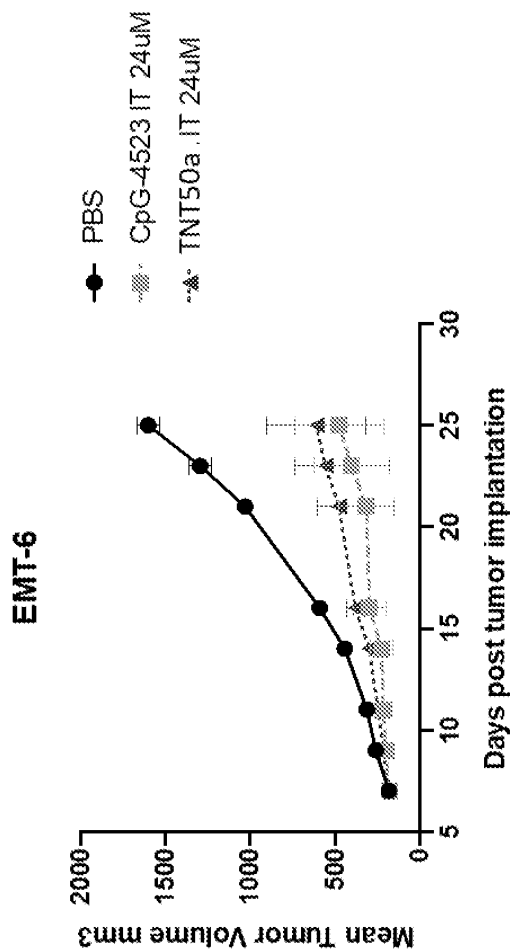


FIG. 37

FIG. 38B

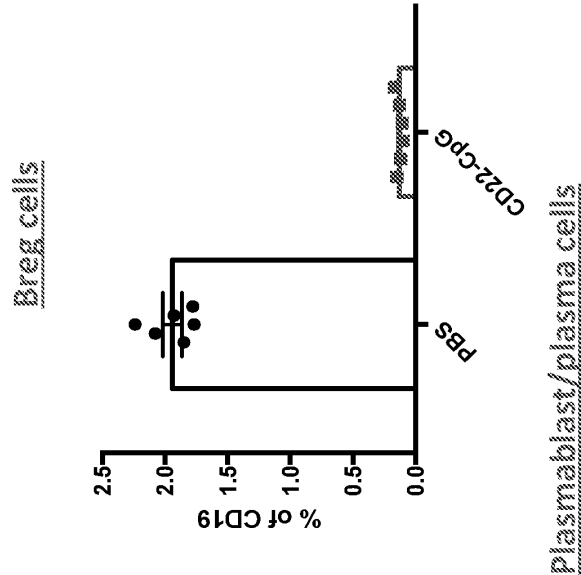


FIG. 38D

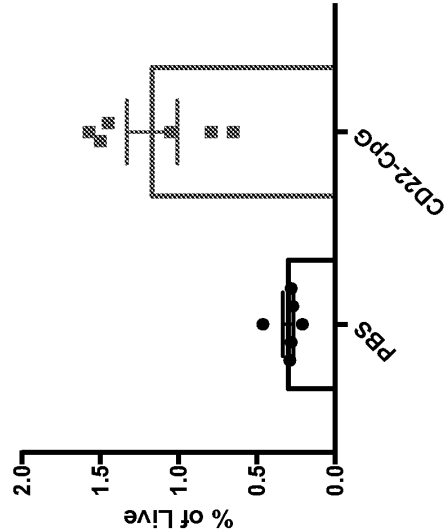


FIG. 38A

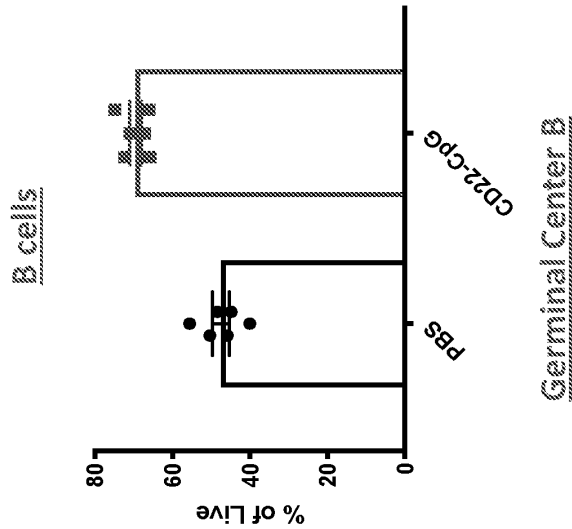


FIG. 38C

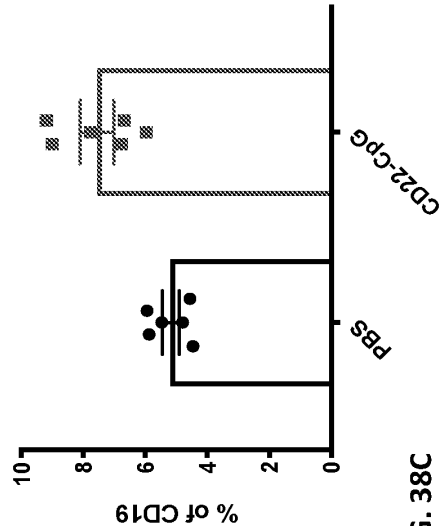


FIG. 39B

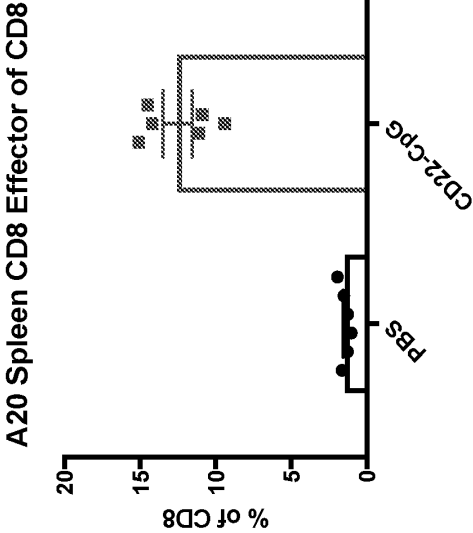


FIG. 39D

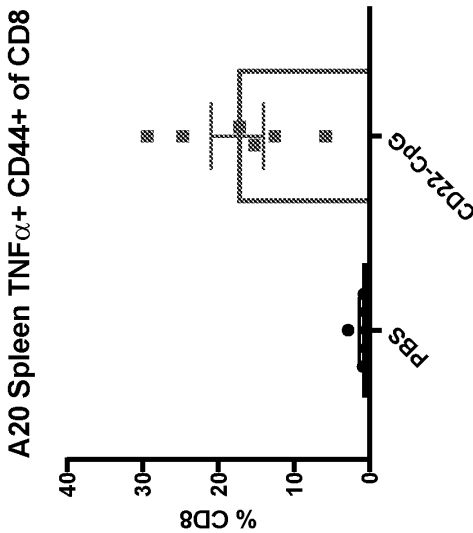


FIG. 39A

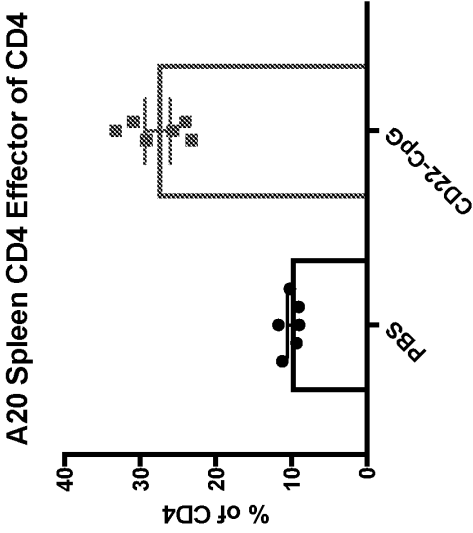


FIG. 39C

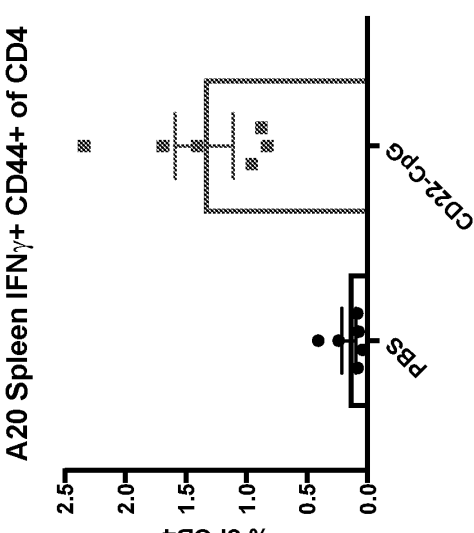


FIG. 40B

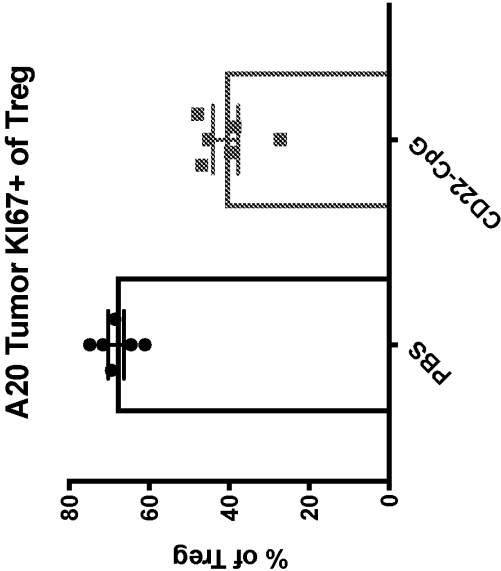


FIG. 40D

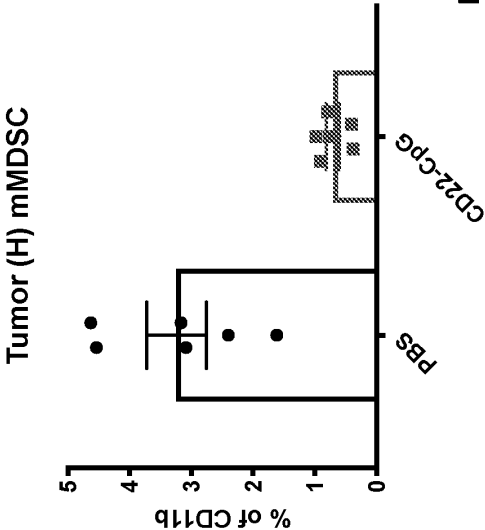


FIG. 40A

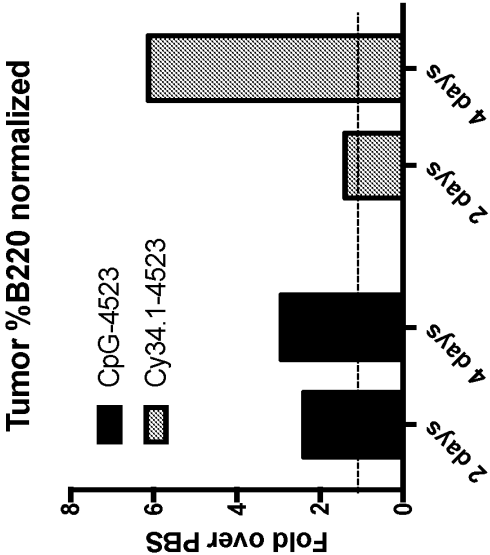


FIG. 40C

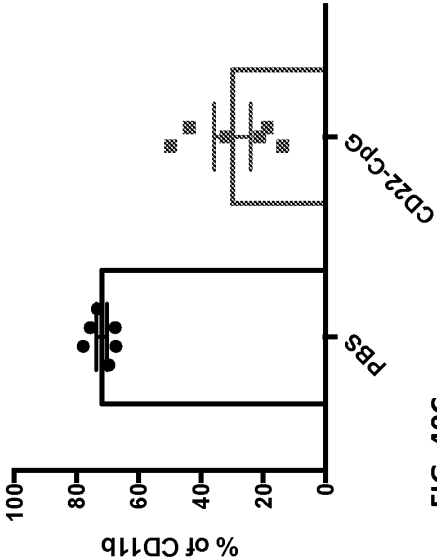
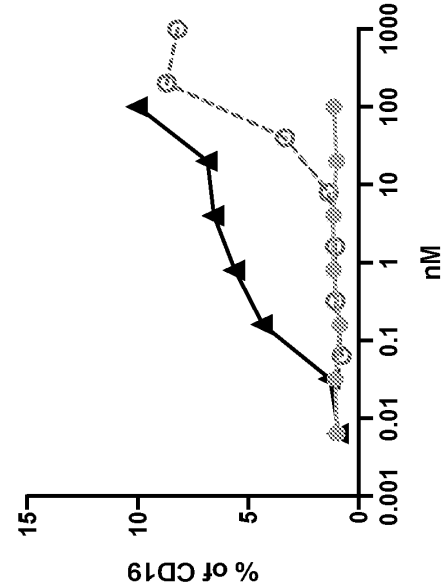


FIG. 41A

D985 48hr CD19 % CCL3



D985 48hr CD19 % IL6

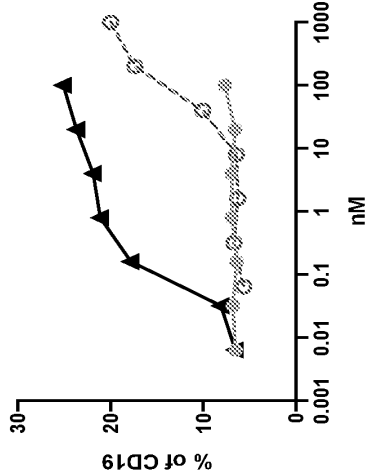


FIG. 41C

D985 48hr CD19 % IL2

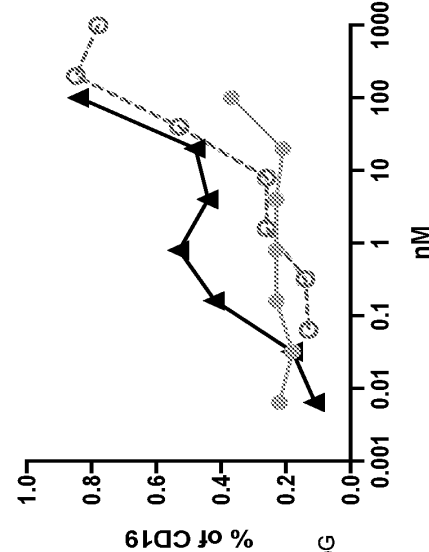


FIG. 41B

anti-hCD22
anti-hCD22-CpG
7-7

anti-hCD22
anti-hCD22-CpG
7-7

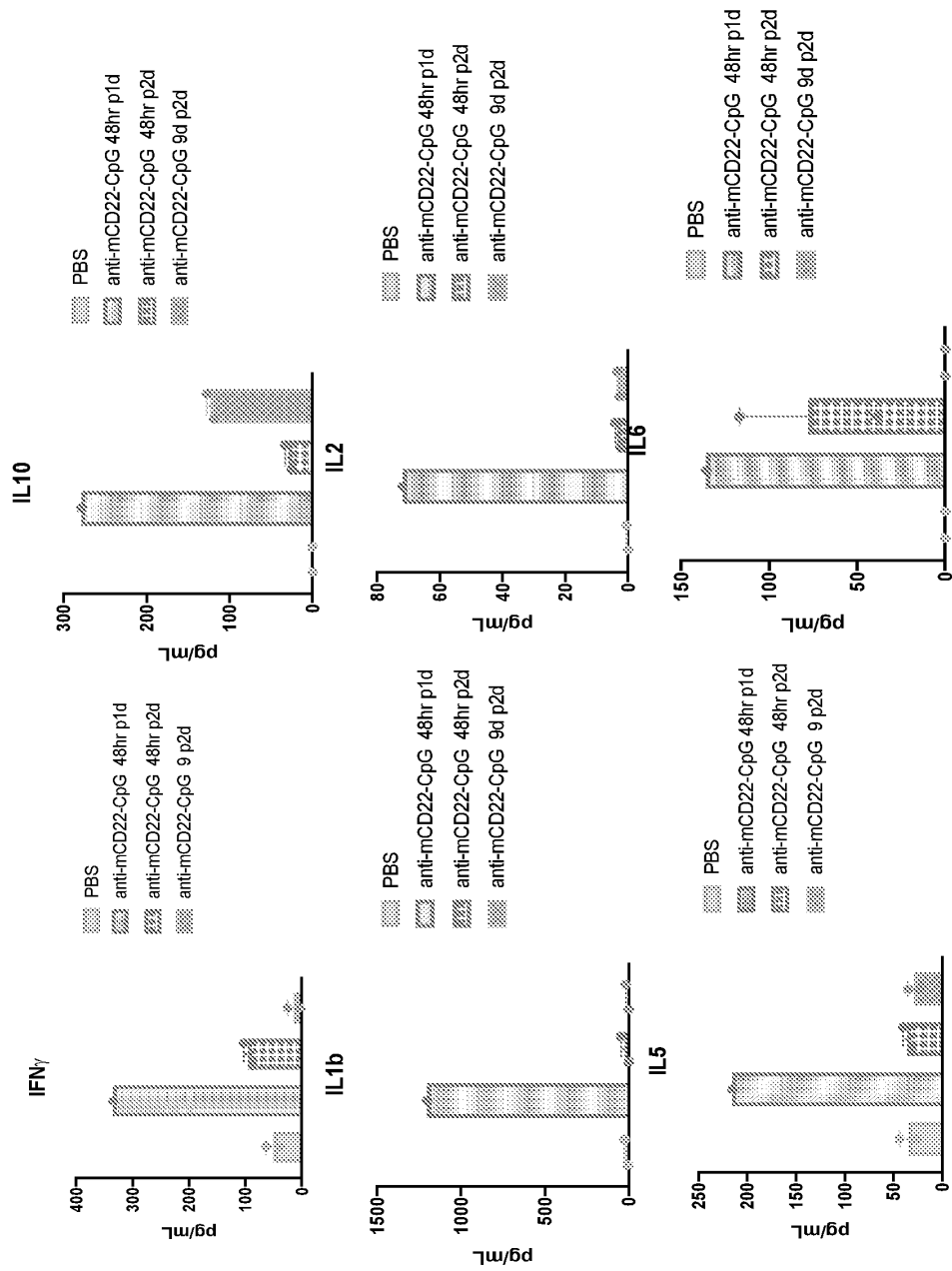


FIG. 42A

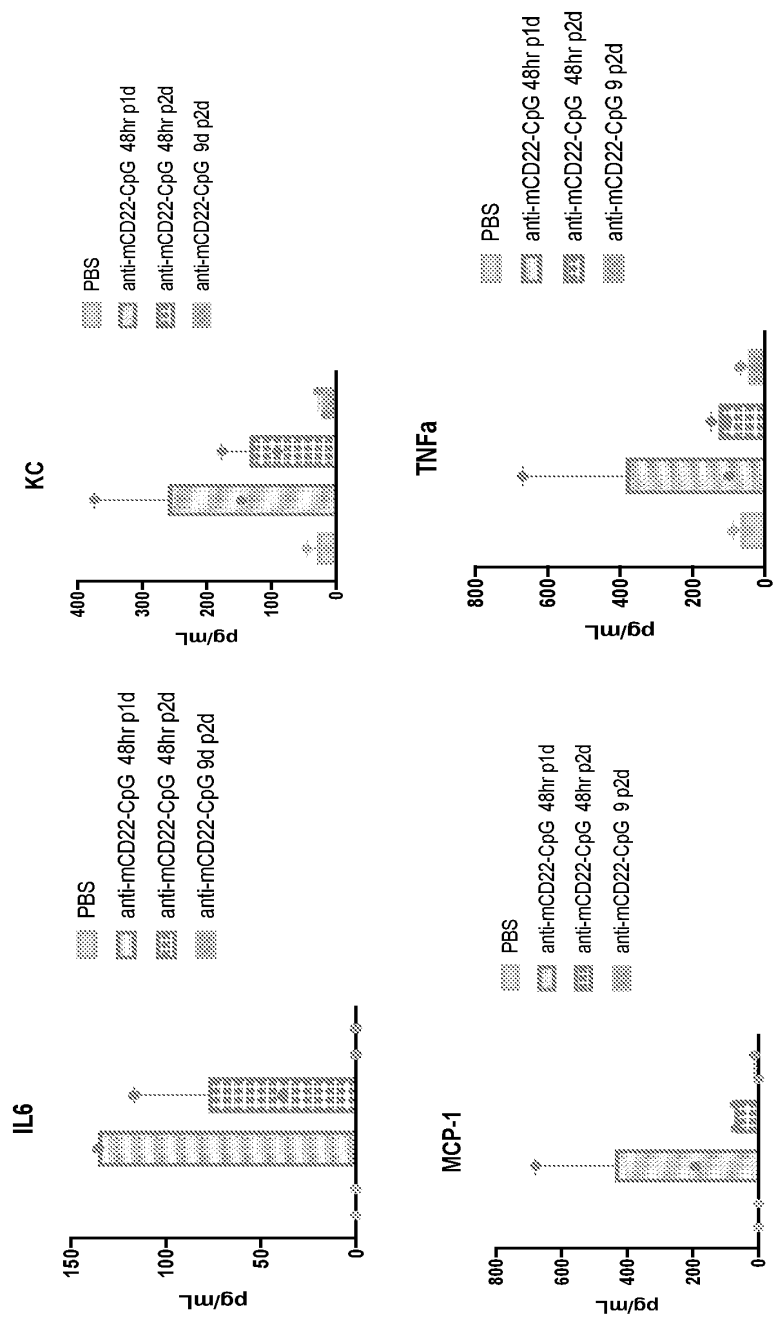


FIG. 42B

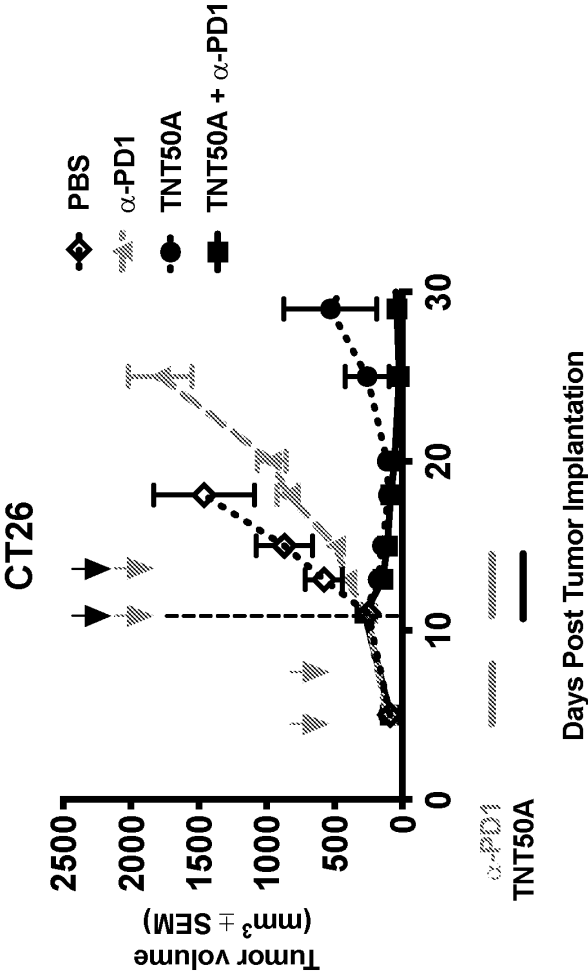


FIG. 43

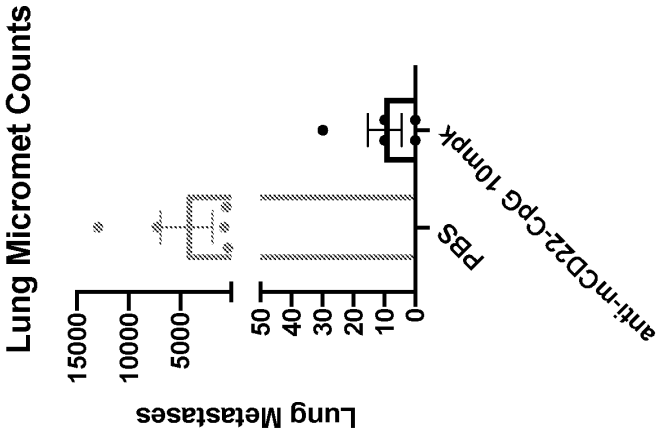


FIG. 44