

FIG. 1A

Variant	Analyte	K _{on} (1/Ms)	k _{off} (1/Ms)	KD (nM)
IgG1.3f	hu-TREM1	1.4E+06	1.3E-03	0.91
IgG1.3f	cy-TREM1	4.0E+05	1.4E-03	3.4

FIG. 1B

Variant	k _a (1/Ms)	k _d (1/s)	KD (M)	R _{max} (RU)	Chi ² (RU ²)
IgG4 A	1.42E+06	1.43E-03	1.01E-09	333	0.234
IgG4 B	1.46E+06	1.43E-03	9.8E-10	334	0.228
IgG1.1f	1.64E+06	1.42E-03	8.66E-10	400	0.301
IgG1.3f	1.65E+06	1.40E-03	8.50E-10	373	0.282
IgG4-Aba CT (mod)	1.70E+06	1.51E-03	8.89E-10	374	0.25
IgG1-Aba CT (mod)	1.62E+06	1.45E-03	8.99E-10	342	0.255
IgG1.1f (M to Q mutant)	1.66E+06	1.88E-03	1.13E-09	347	0.277
IgG4 (M to Q mutant)	1.46E+06	1.85E-03	1.26E-09	376	0.262
IgG4 (M to L mutant)	1.29E+06	3.56E-03	2.75E-09	340	0.348

FIG. 2A

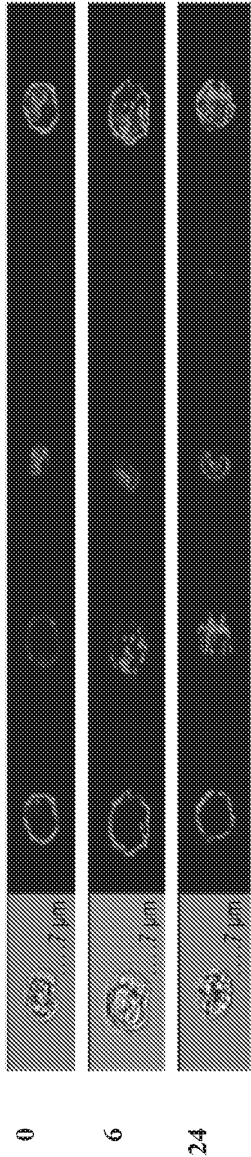
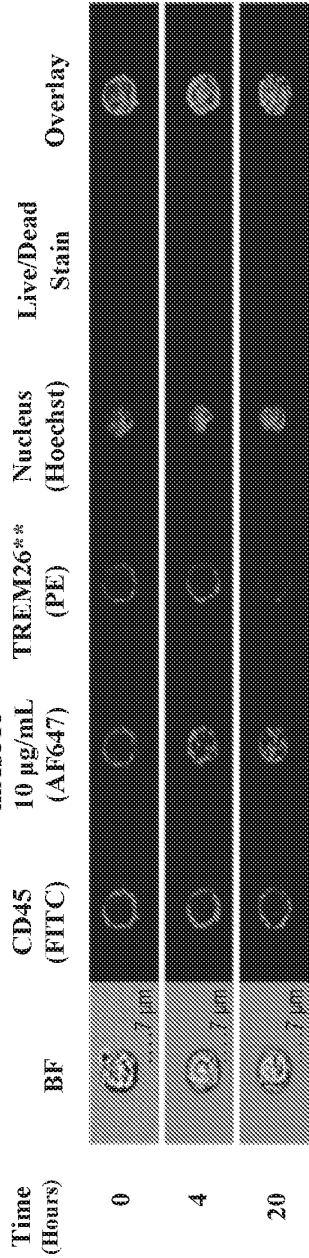


FIG. 2B



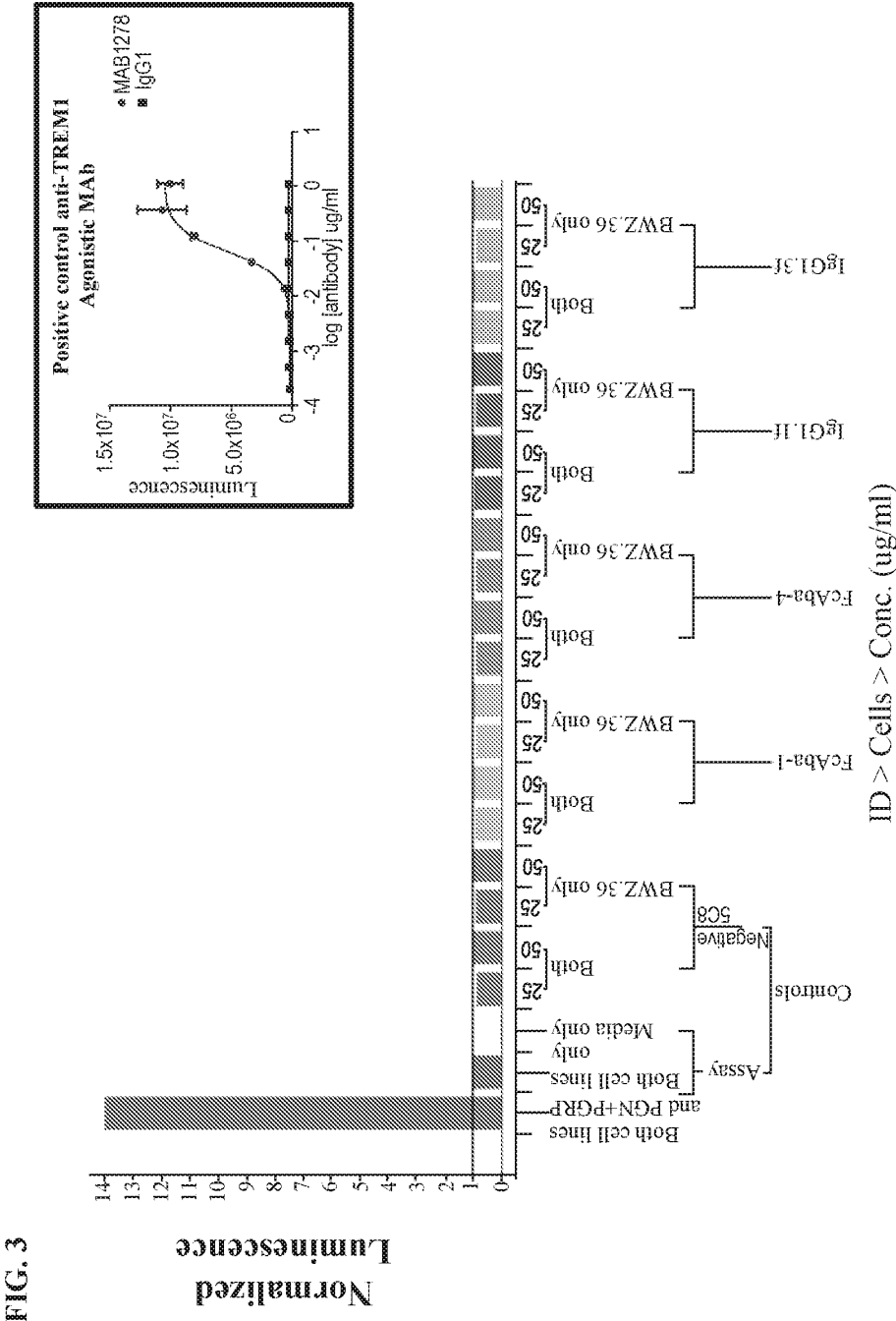


FIG. 4

Cell Type	Assay	Stimulus	mAb 0318- IgG4 IC50 (pM)	mAb 0318- IgG1.3f IC50 (pM)	mAb 0318- IgG1.1f IC50 (pM)	mAb 0318- IgG1- Aba IC50 (pM)	mAb 0318- IgG4- Aba IC50 (pM)
PBMC	TNF- α	PGRP + PGN-Ecdss	42 (N=3)	25 (N=12)	14 (N=9)	20 (N=3)	19 (N=3)
	IL-6		N/D	32.26 (N=2)	N/D	N/D	N/D
Monocyte	TNF- α	PGRP + PGN-Ecdss	4 (N=3)	11 (N=9)	9 (N=12)	12.5 (N=3)	15.5 (N=3)
Endogenous Ligand Stim Monocytes	TNF- α	PMA-Stim Neutrophil Endogenous PGRP	44 (N=3)	22 (N=6)	19 (N=6)	26 (N=6)	17 (N=6)
RBC- Sedimented Whole Blood	TNF- α	PGRP + PGN-Ecdss	55 (N=6)	96 (N=6)	63 (N=9)	58 (N=3)	94 (N=3)
	IL-6		68.4 (N=6)	N/D	N/D	N/D	N/D
Neutrophils	IL-8	PGRP + PGN-Ecdss	37.5 (N=3)	9 (N=3)	N/D	N/D	N/D

FIG. 5A

Donors	IL-8 Cytokine Expression (pg/mL)			mAb 0318-IgG1 3f Inhibition	
	PGN Only	PGRP/PGN	Fold Change	Max Inhibition (%)	IC ₅₀ (pM)
298	518	4886	9	81	11
294	391	2319	6	81	14
322	425	1420	3	82	11
344	393	1188	3	61	12
351	388	1318	3	92	9
356	276	1377	5	62	12
				Mean IC ₅₀	12
				Std Dev of IC ₅₀	2

FIG. 5B

Donors	% IL-8 +ve cells (PGN only)	% IL-8 + cells (PGRP+PGN)	IC ₅₀ (pM)	IC ₅₀ pM (Mean±SD)
A	0.019	19.2	20.5	19.6±0.012
B	0.057	12.4	27.5	
C	0.043	21.1	36.0	
D	0.097	03.90	ND*	
E	0.025	29.25	5.2	
F	0.046	19.25	8.7	
G	0.021	04.04	ND*	

FIG. 6A

Donor #

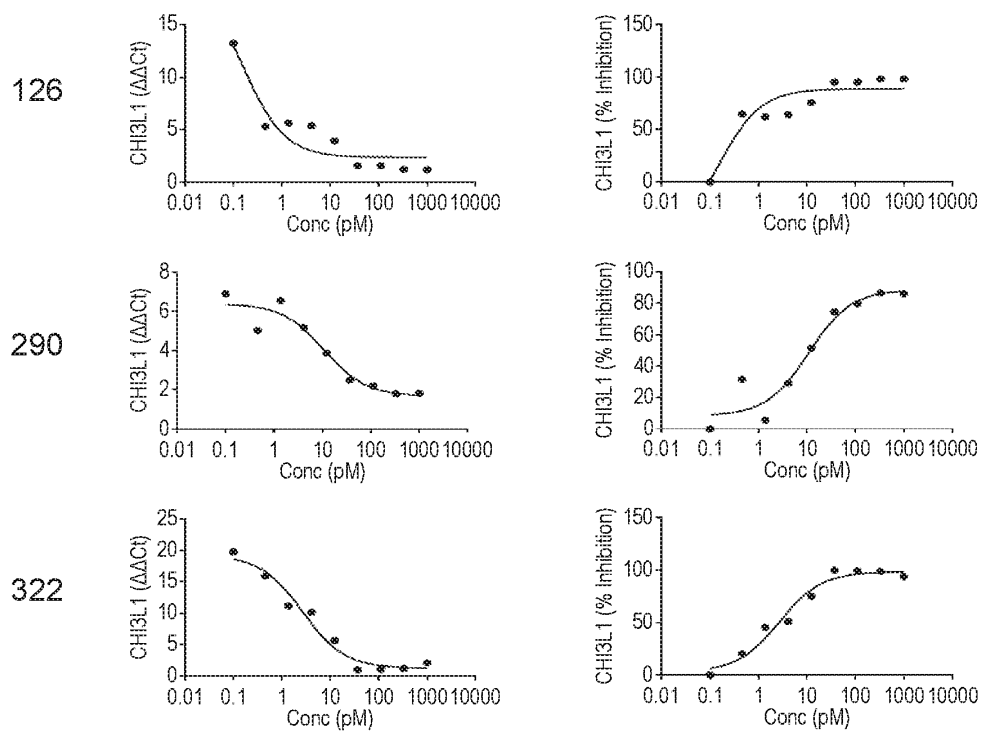


FIG. 6B

Donor #

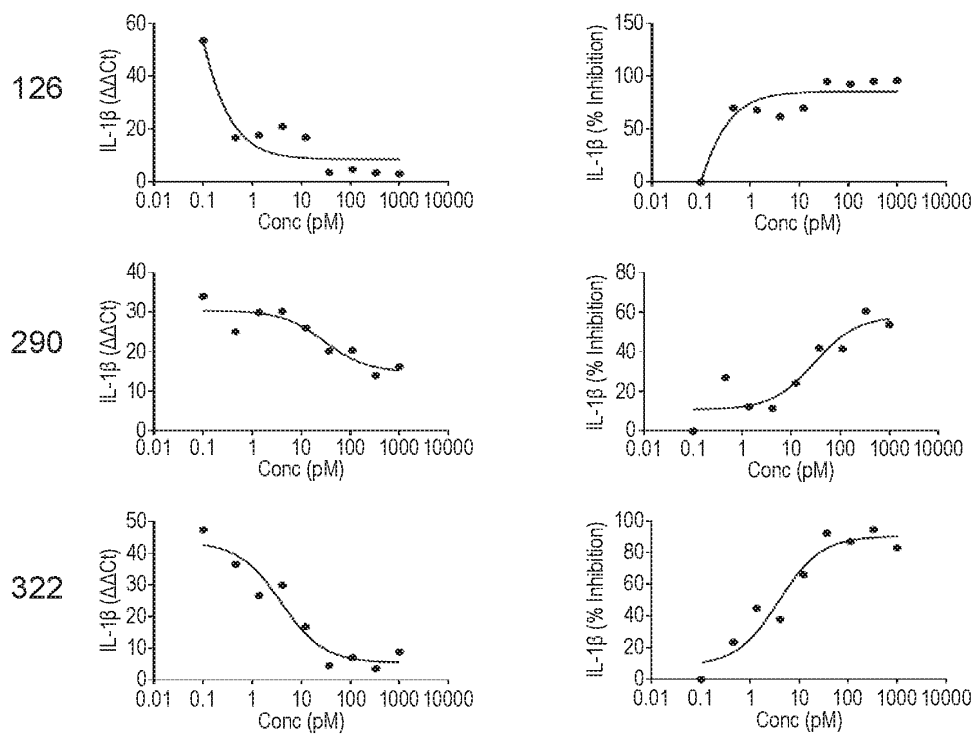
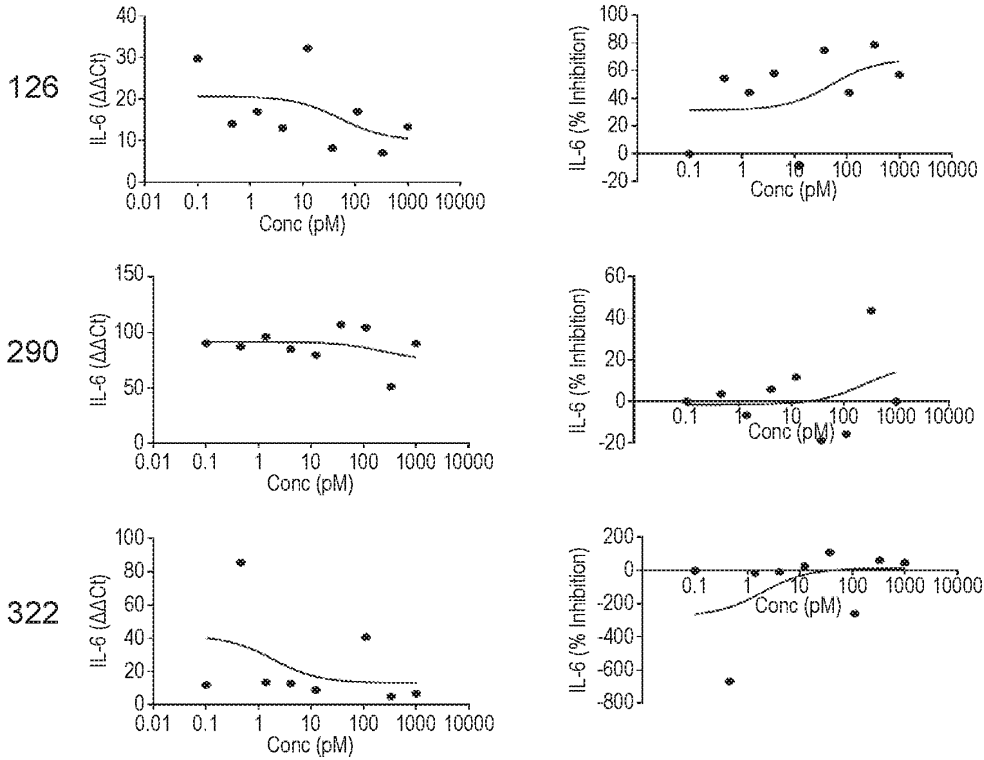


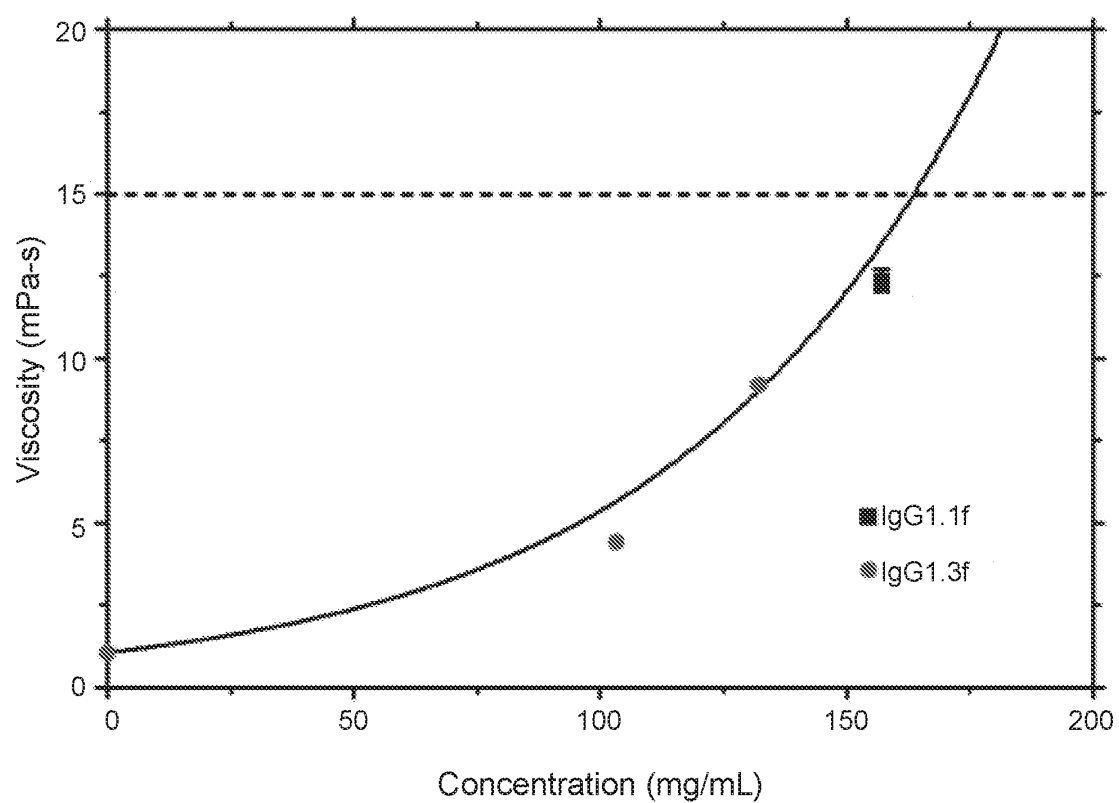
FIG. 6C

Donor #

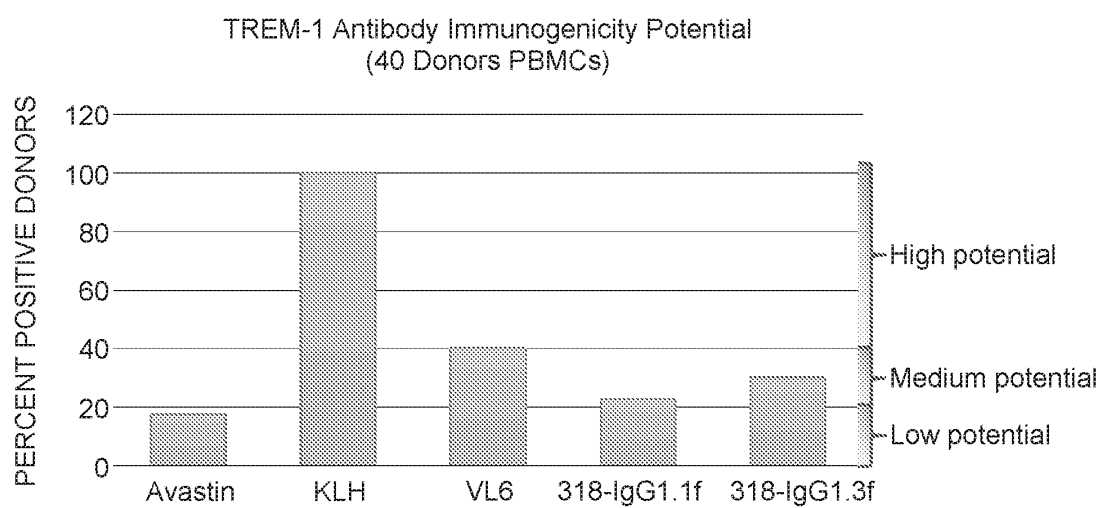


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FIG. 7

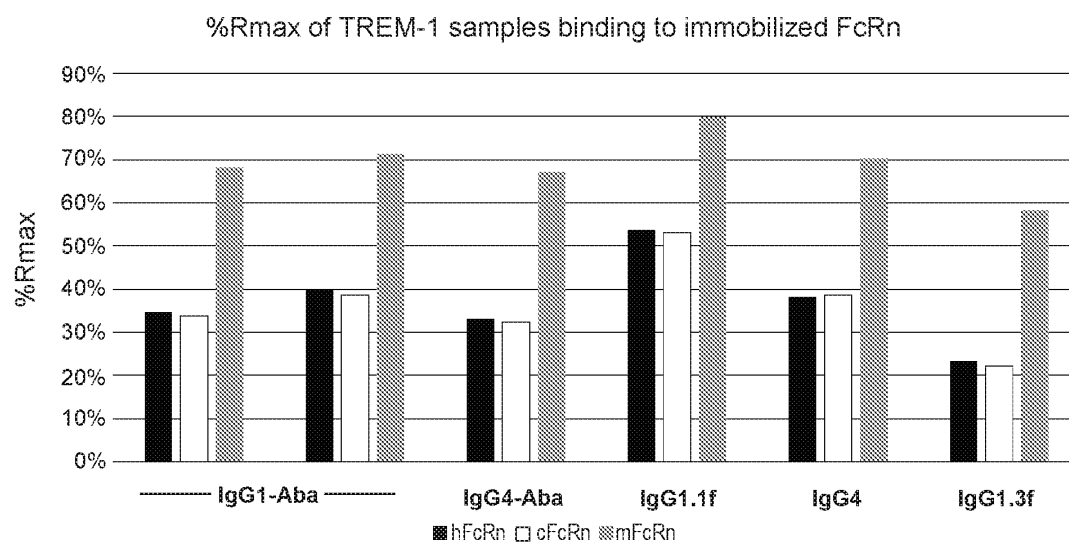


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FIG. 8

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FIG. 9A



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FIG. 9B

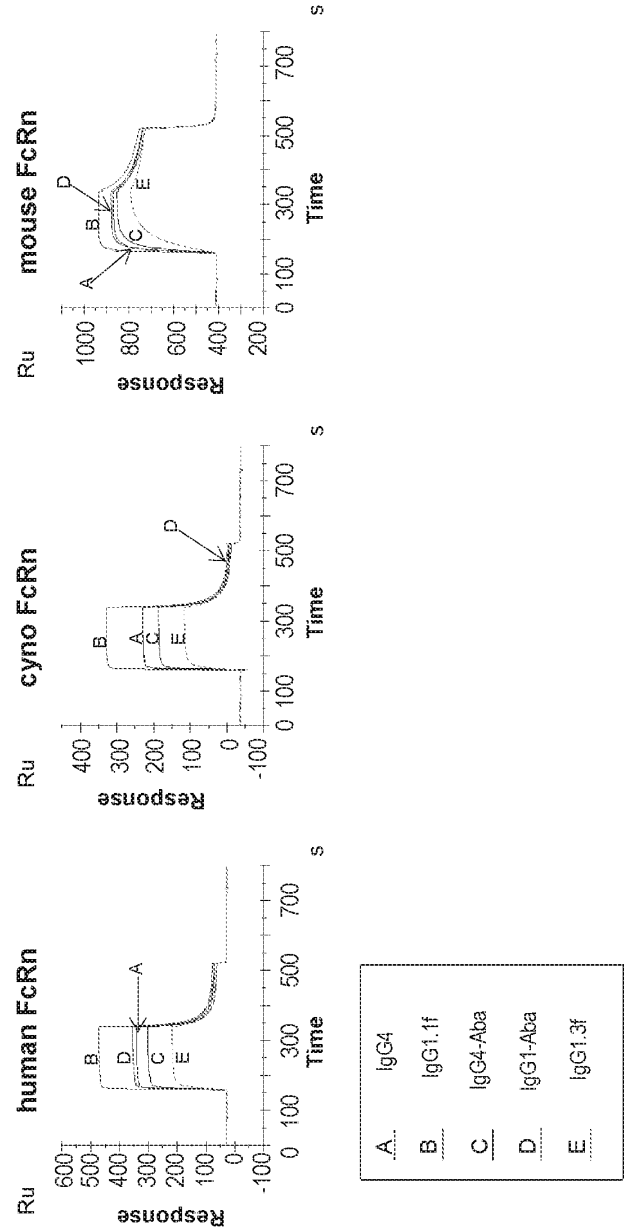


FIG. 10A

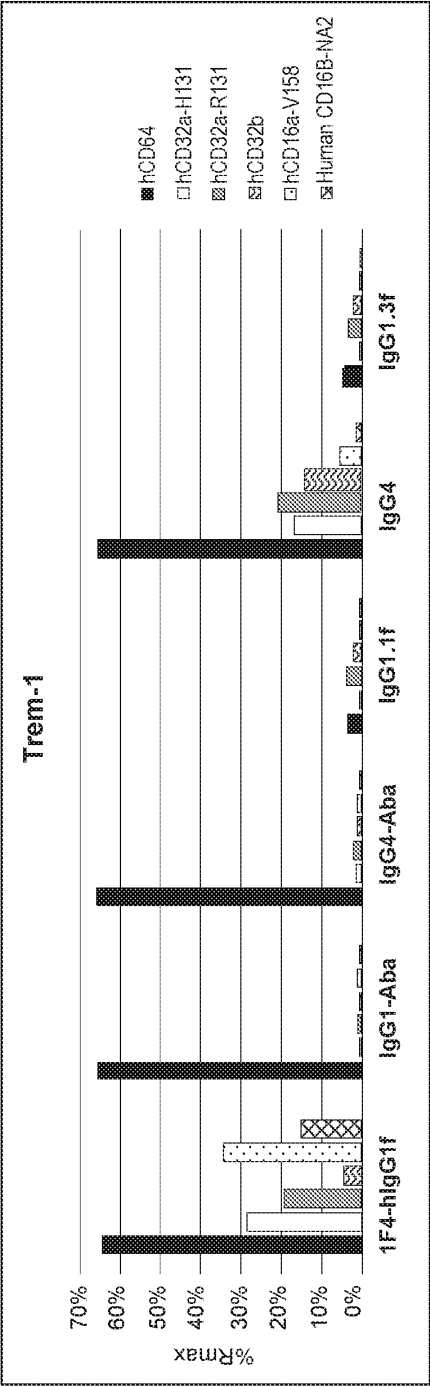


FIG. 10B

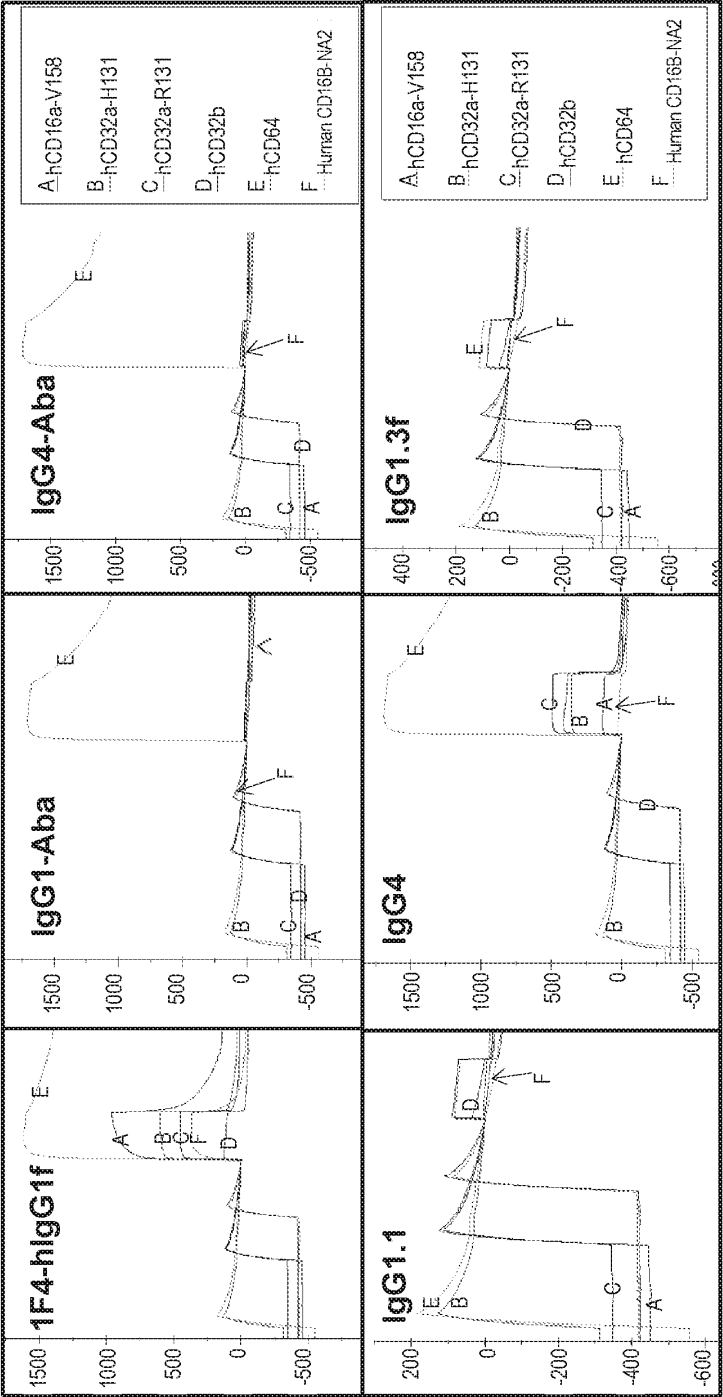


FIG. 11A

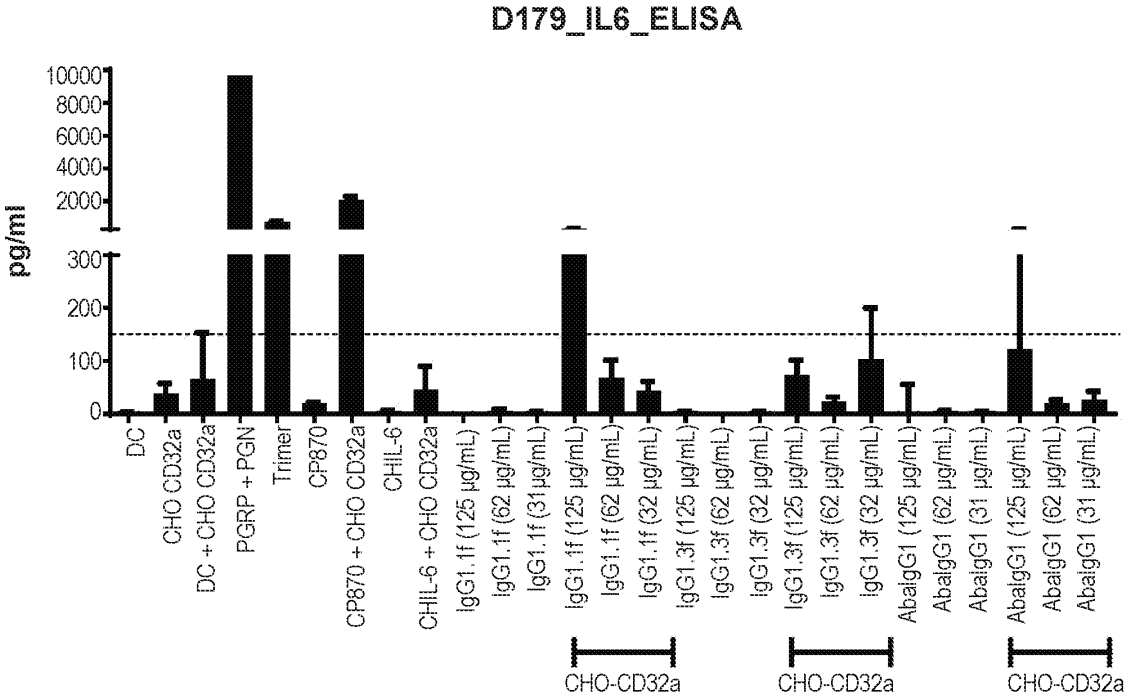


FIG. 11B

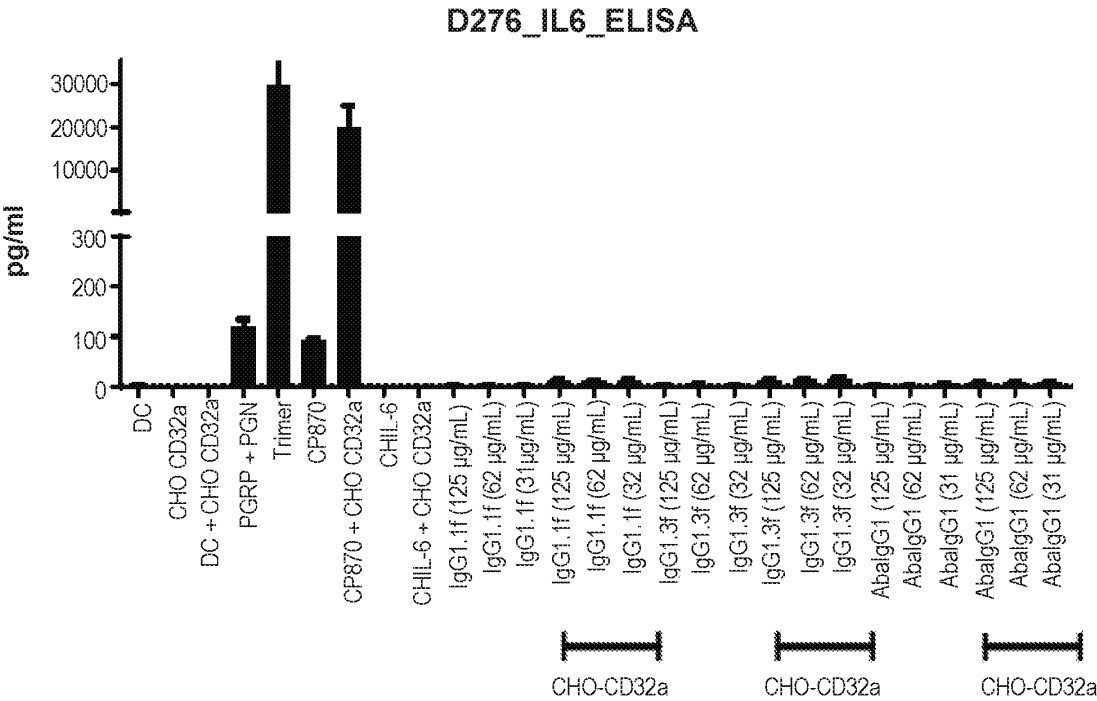


FIG. 11C

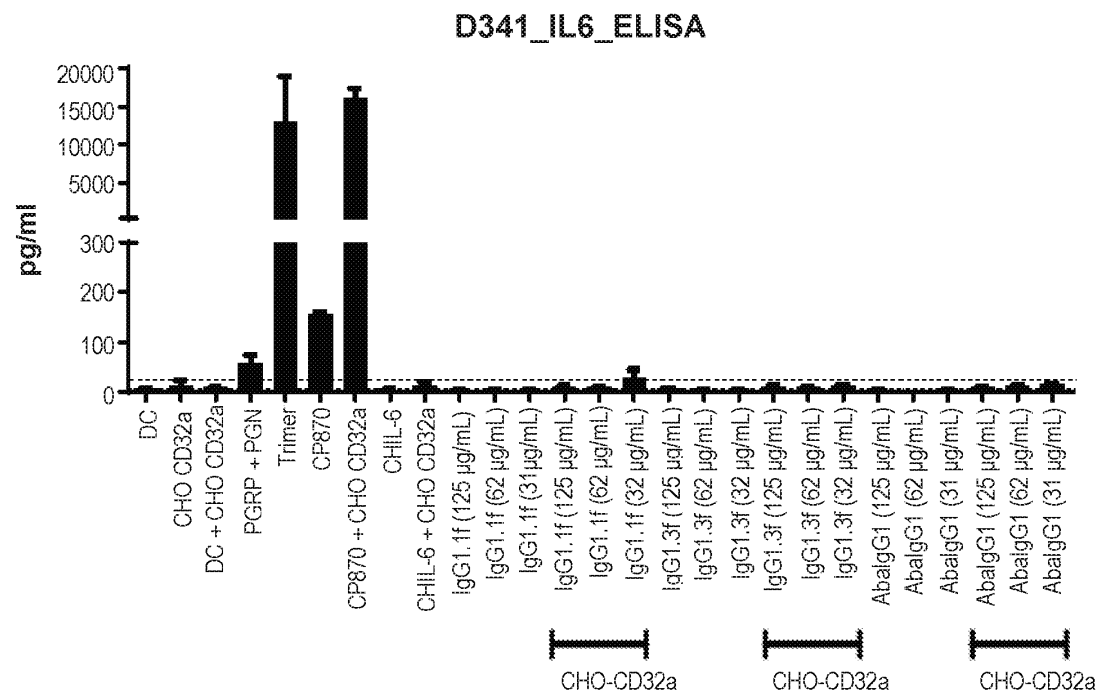


FIG. 11D

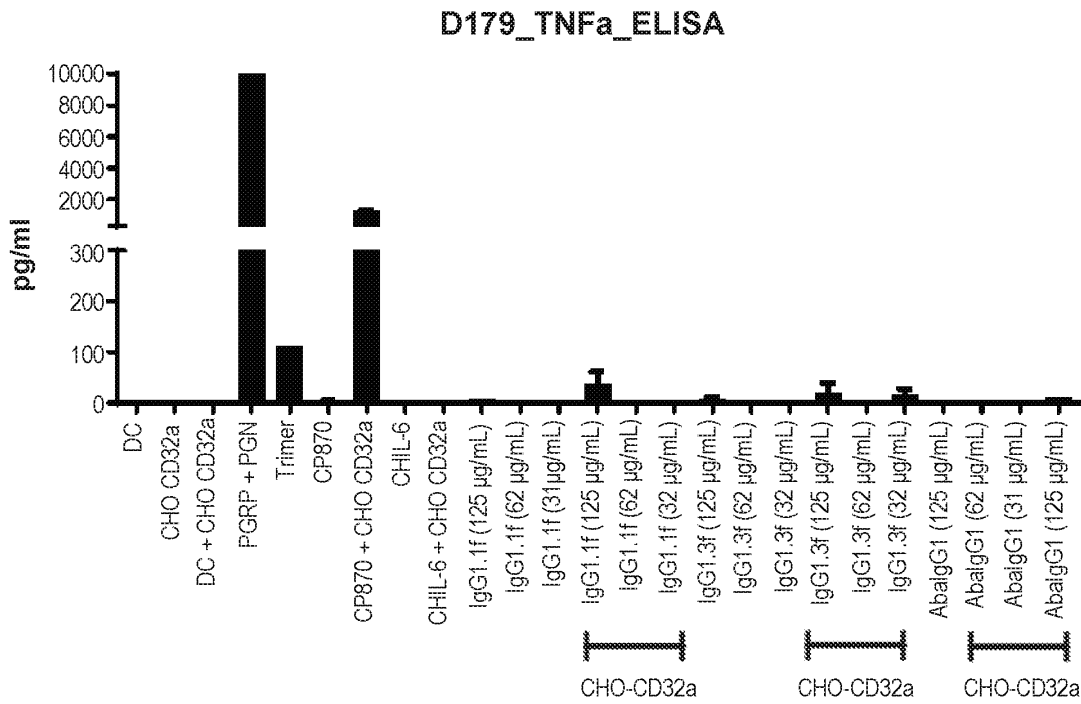


FIG. 11E

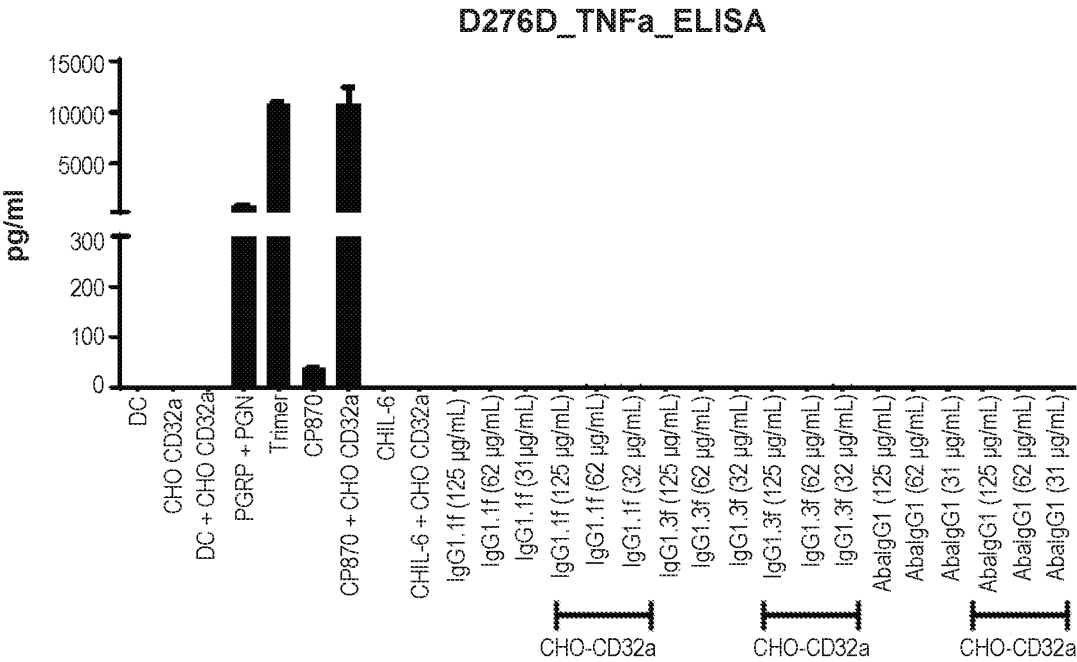


FIG. 11F

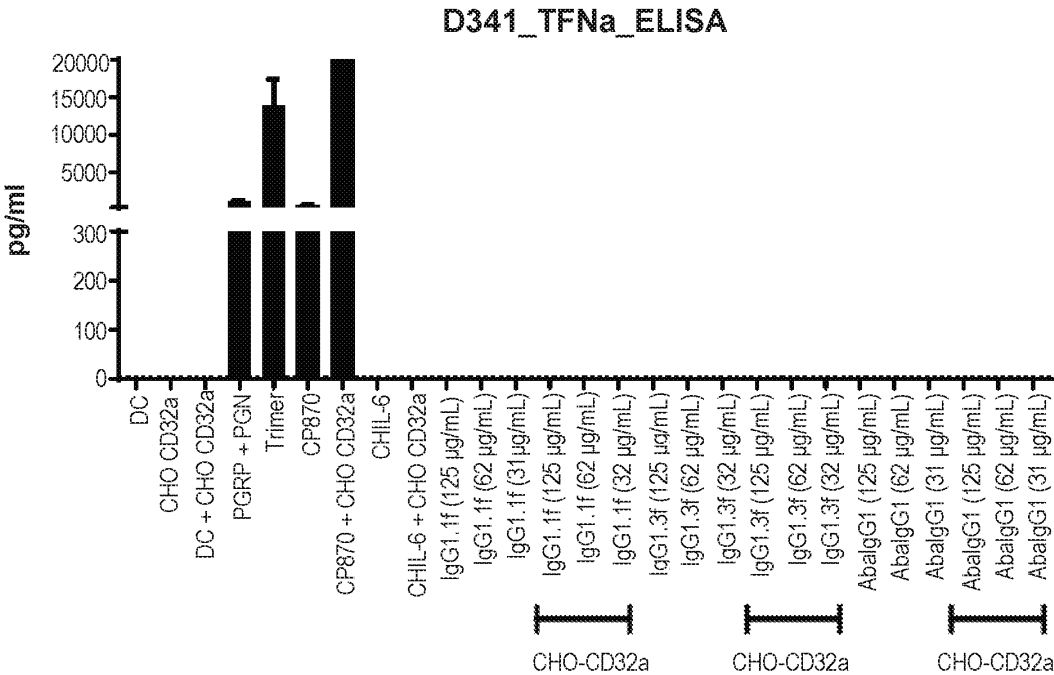


FIG. 11G

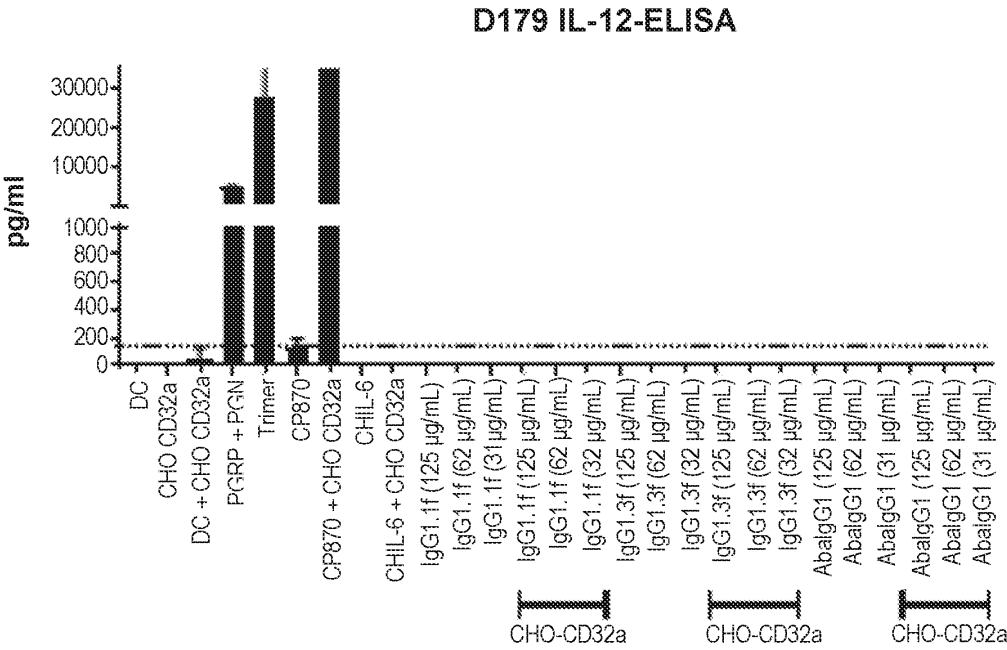


FIG. 11H

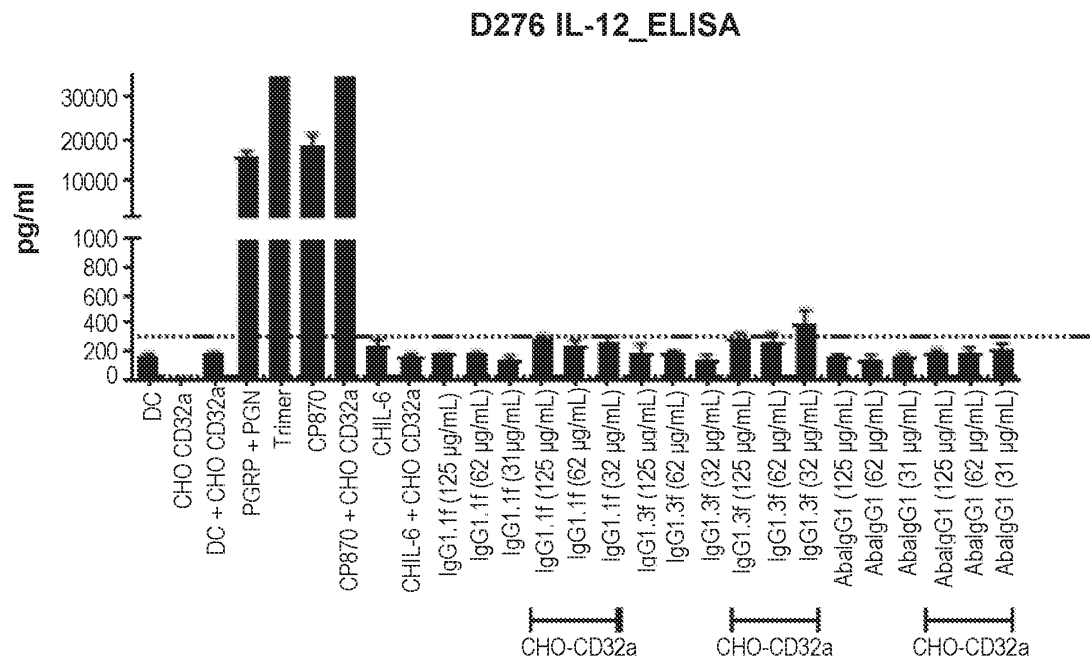
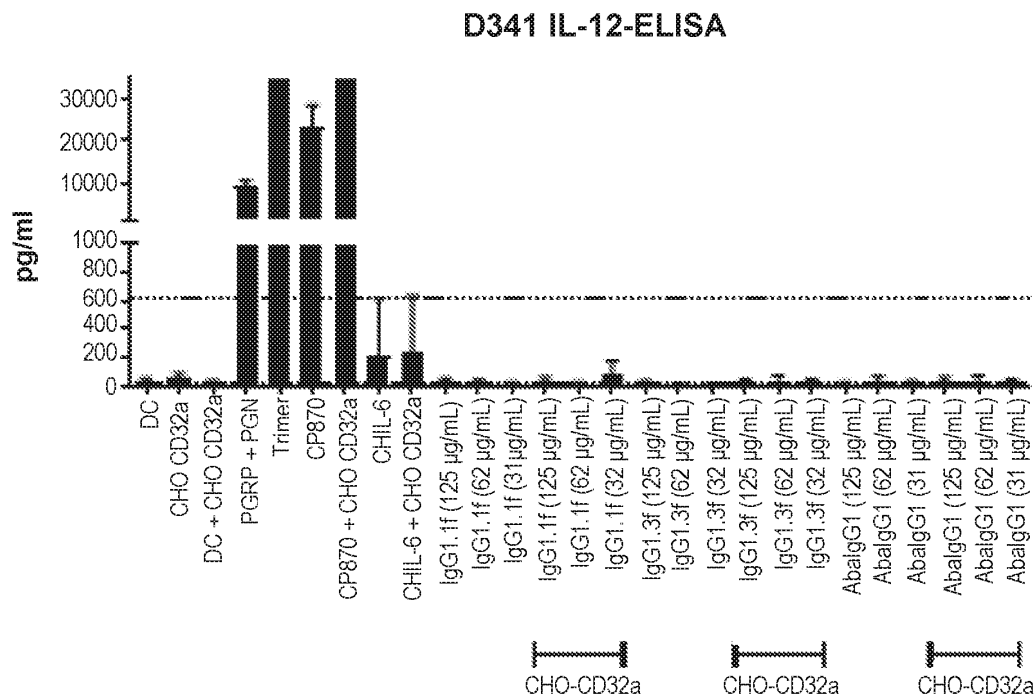


FIG. 11I



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FIG. 12

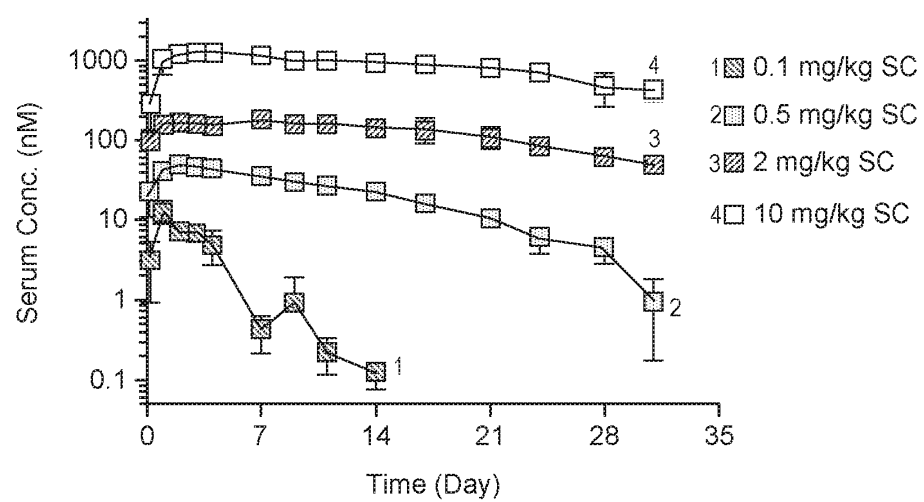
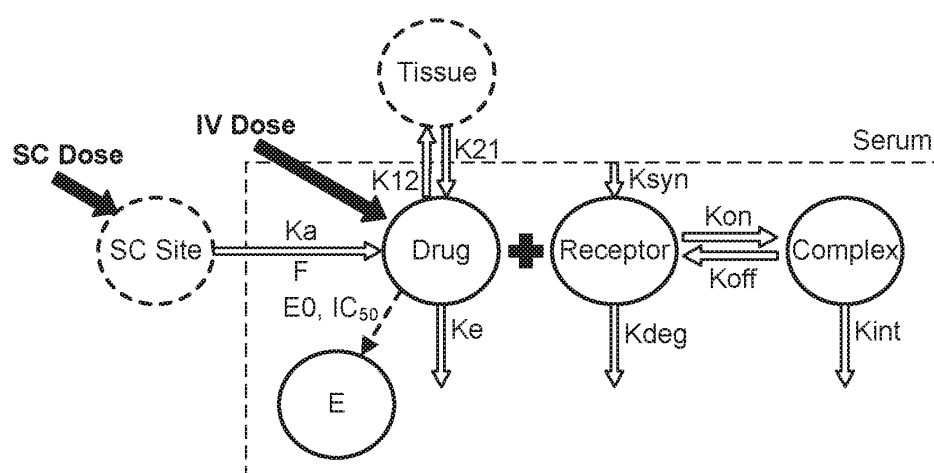


FIG. 13



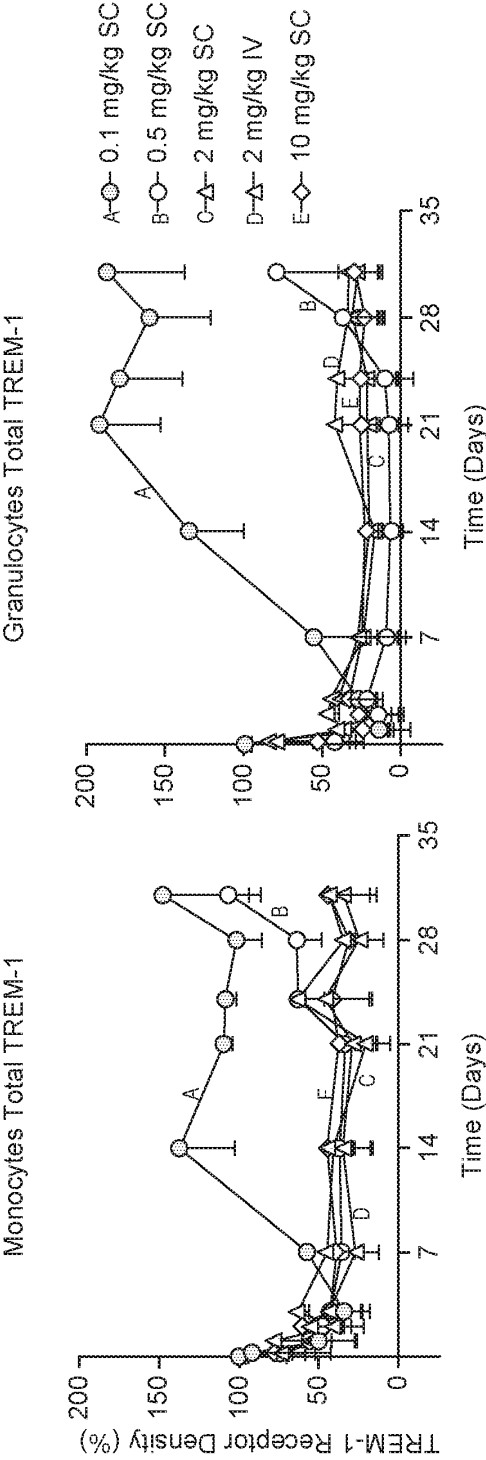


FIG. 14A

FIG. 14B

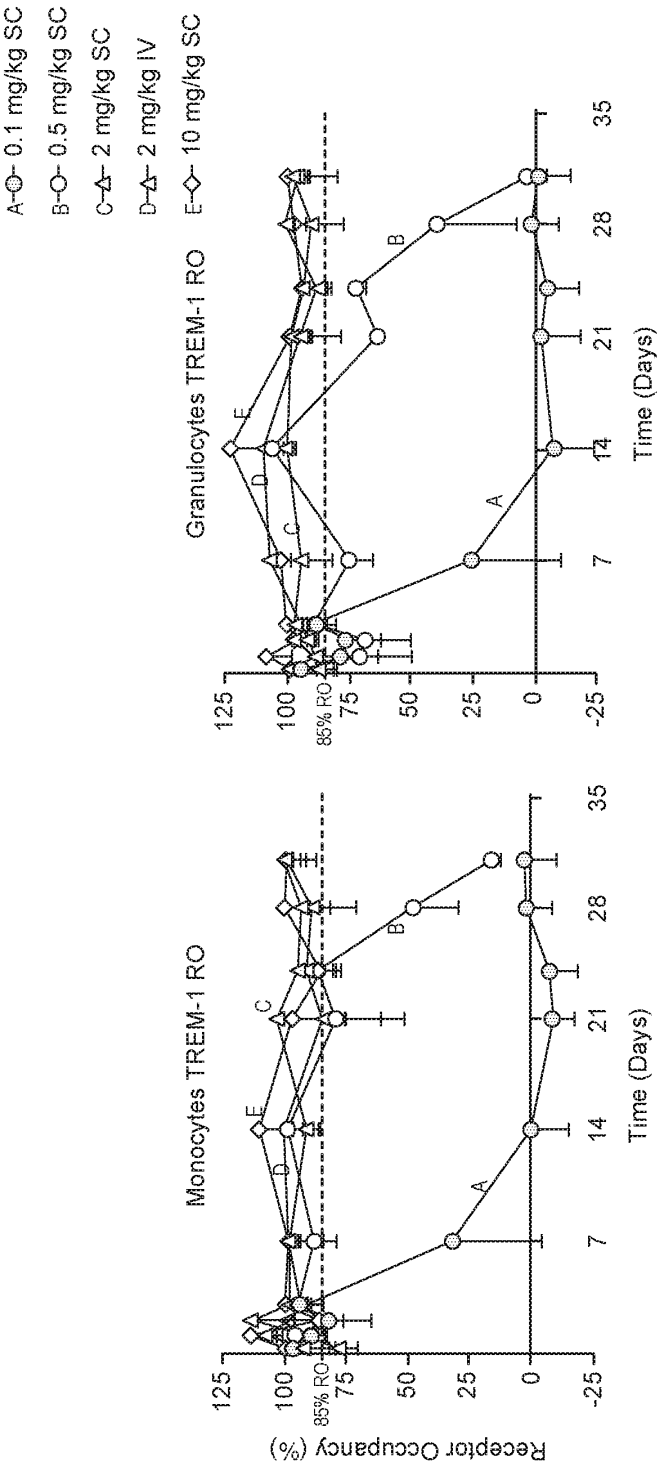


FIG. 15B

FIG. 15A

FIG. 16A

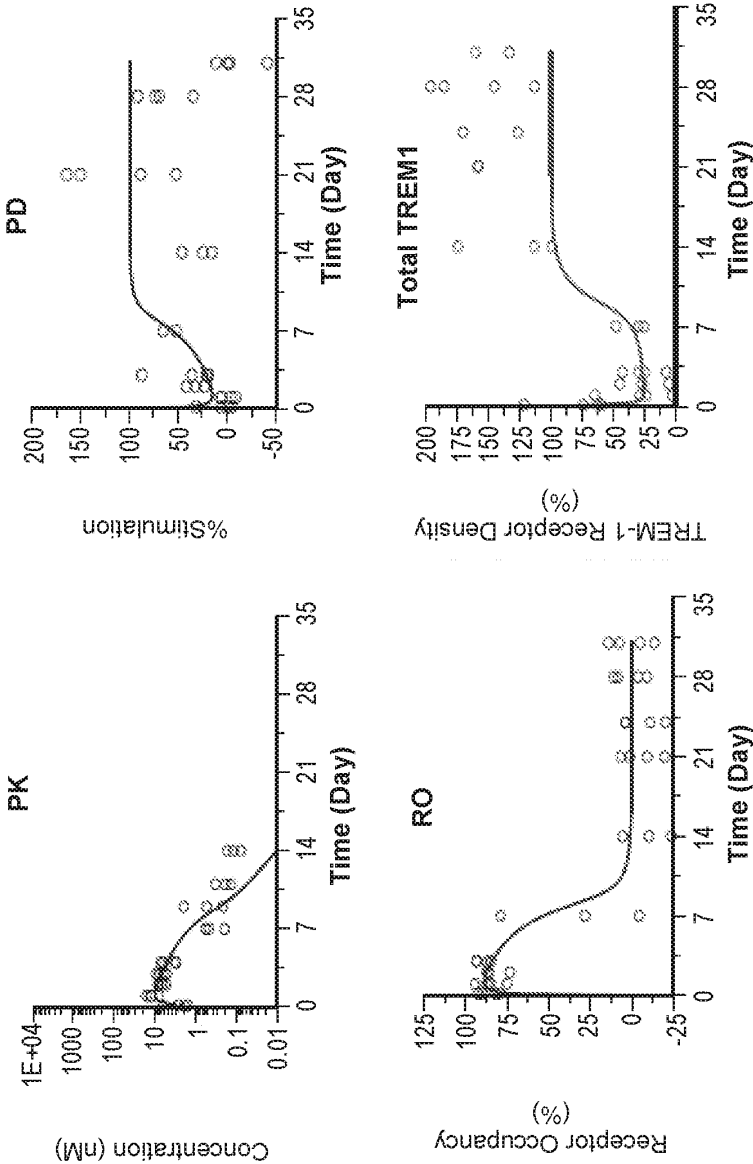


FIG. 16B

