

FIG. 1A

Variant	Analyte	Kon (1/Ms)	koff (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	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (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

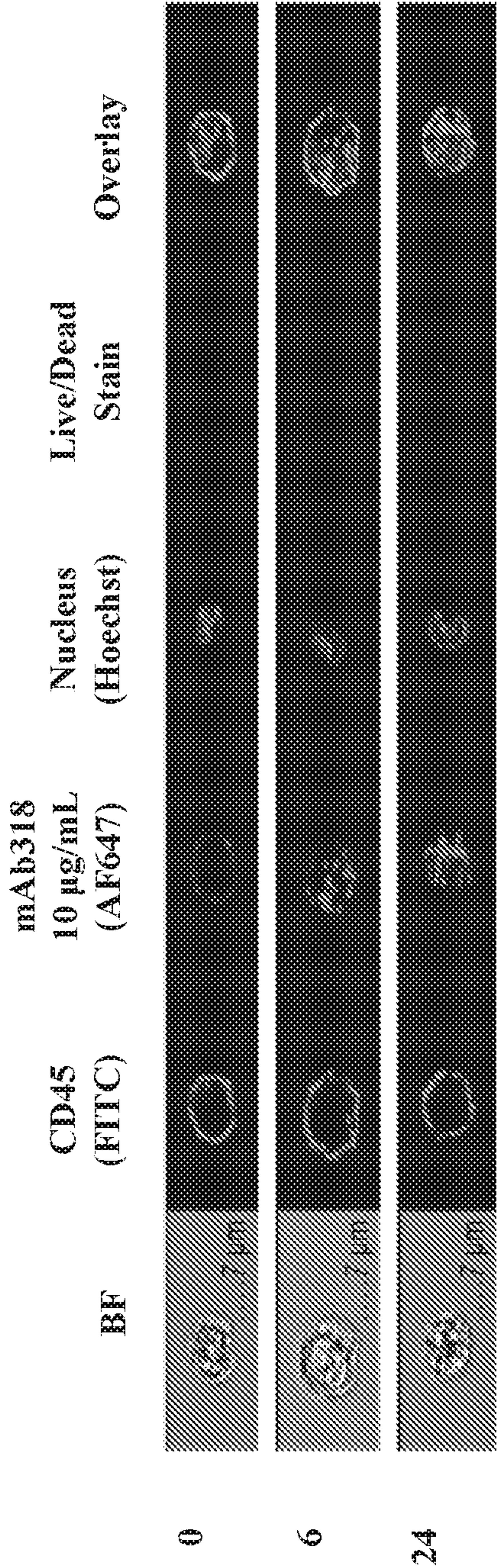
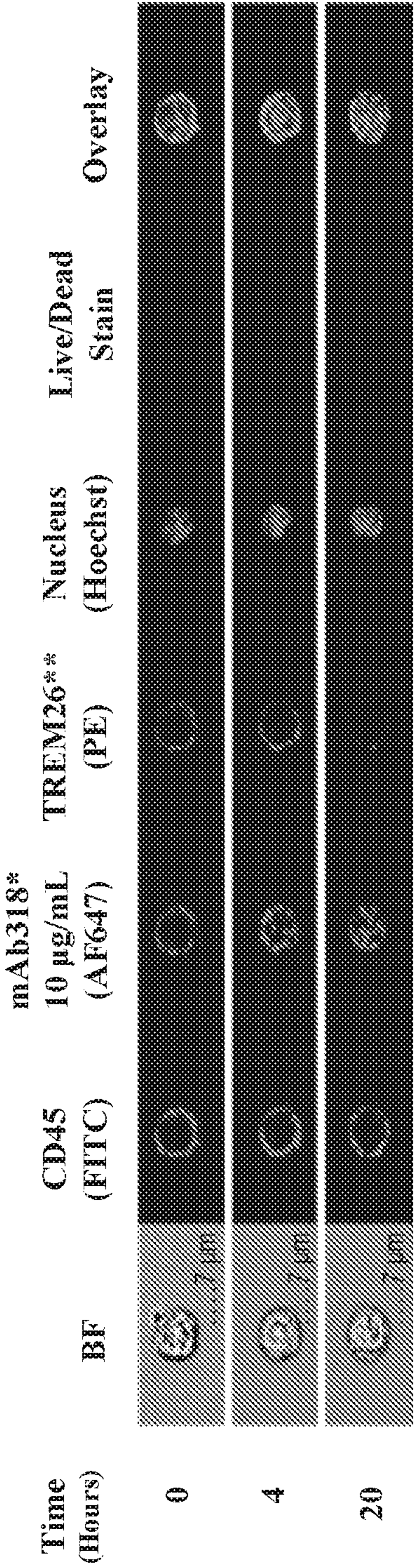


FIG. 2B



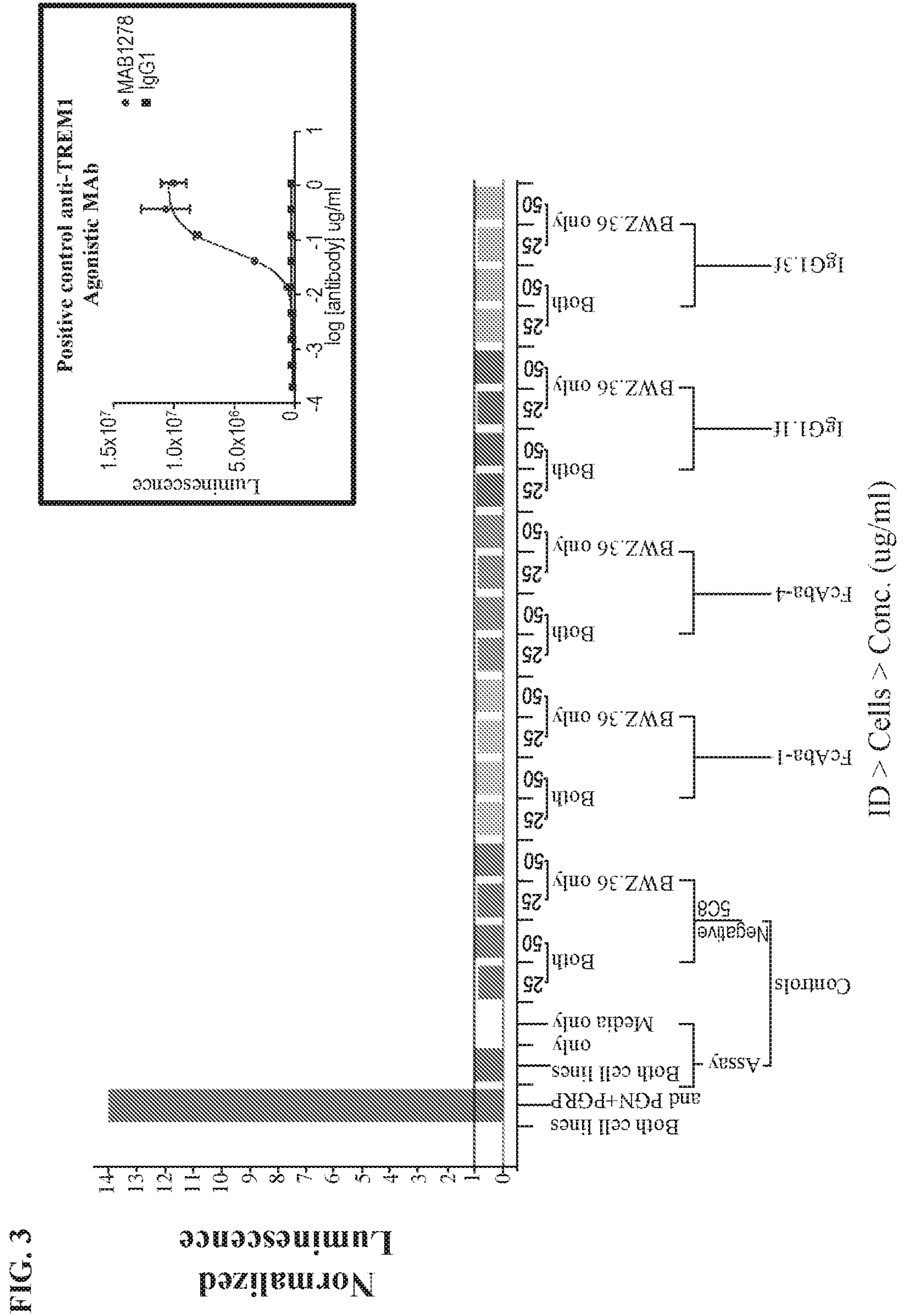


FIG. 4

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-Ecndss	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-Ecndss	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-Ecndss	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-Ecndss	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 #

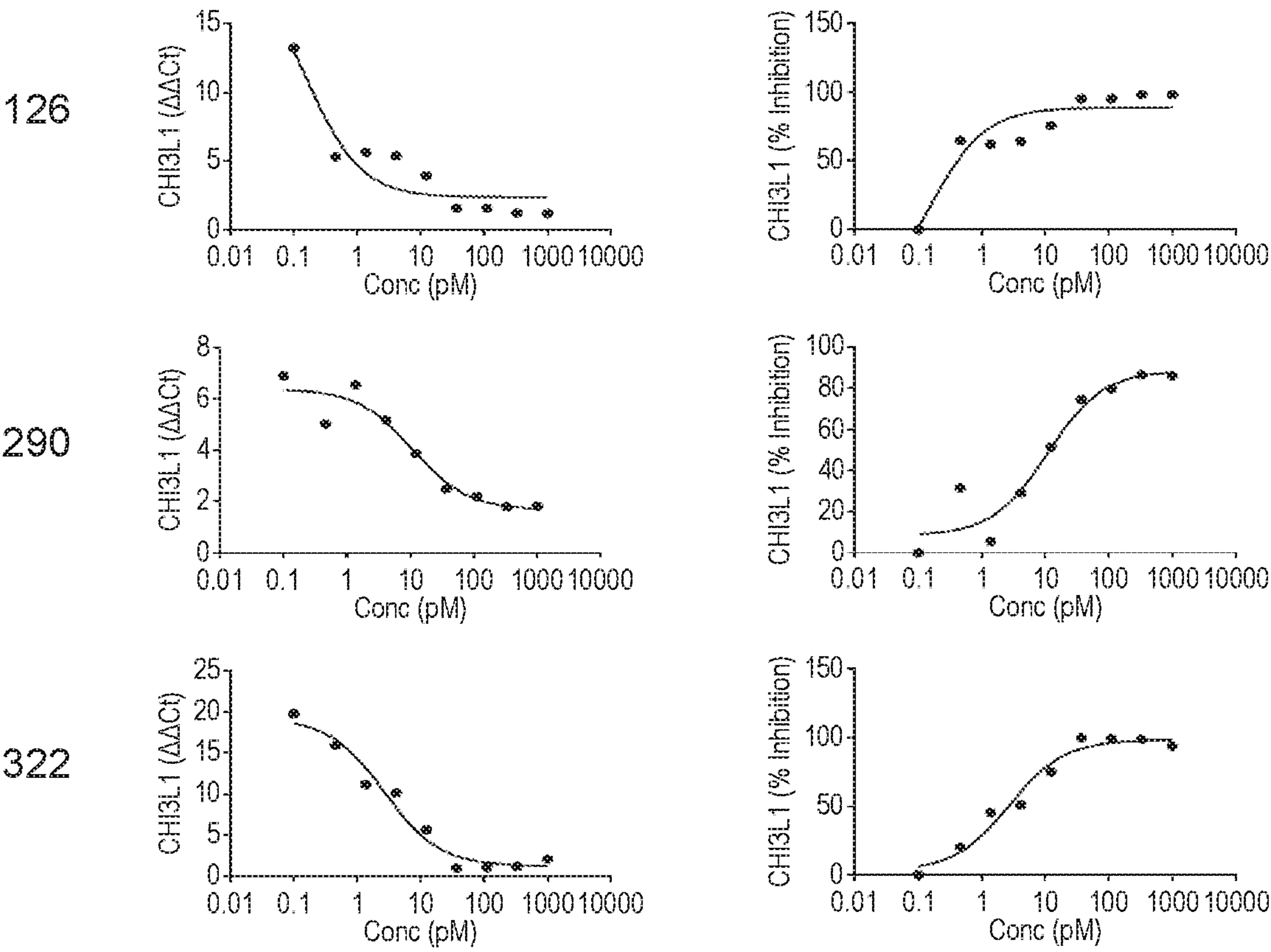


FIG. 6B

Donor #

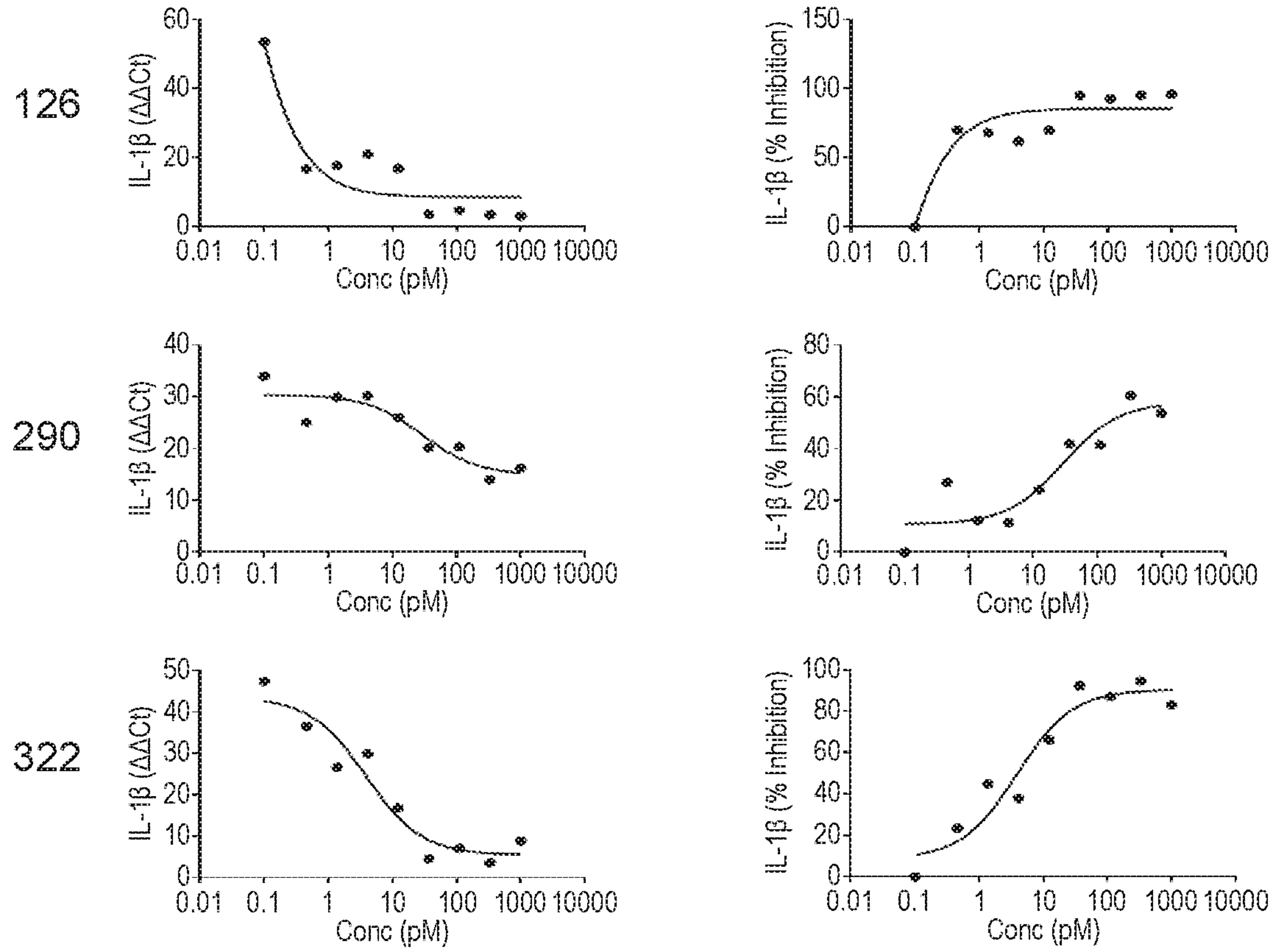


FIG. 6C

Donor #

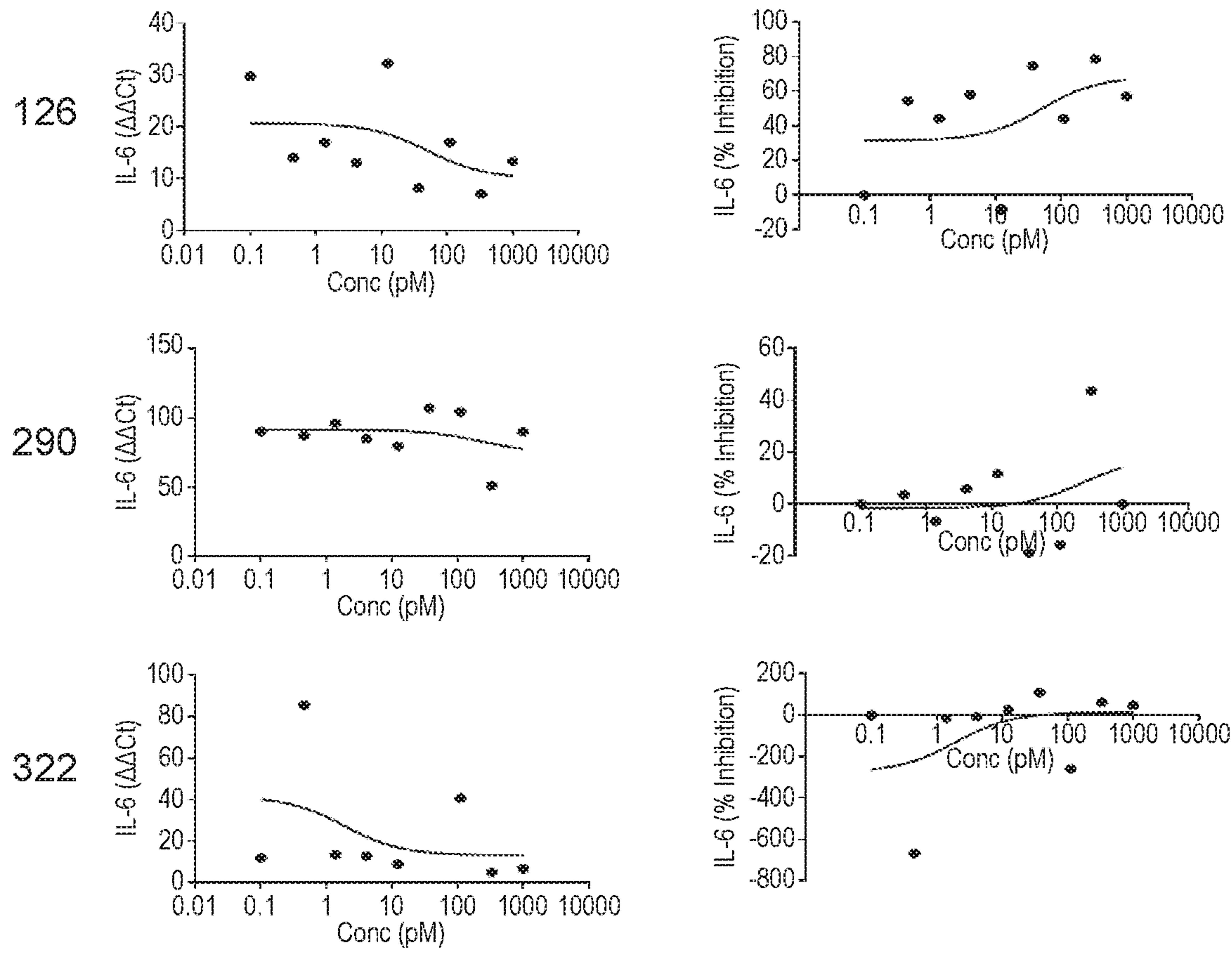


FIG. 7

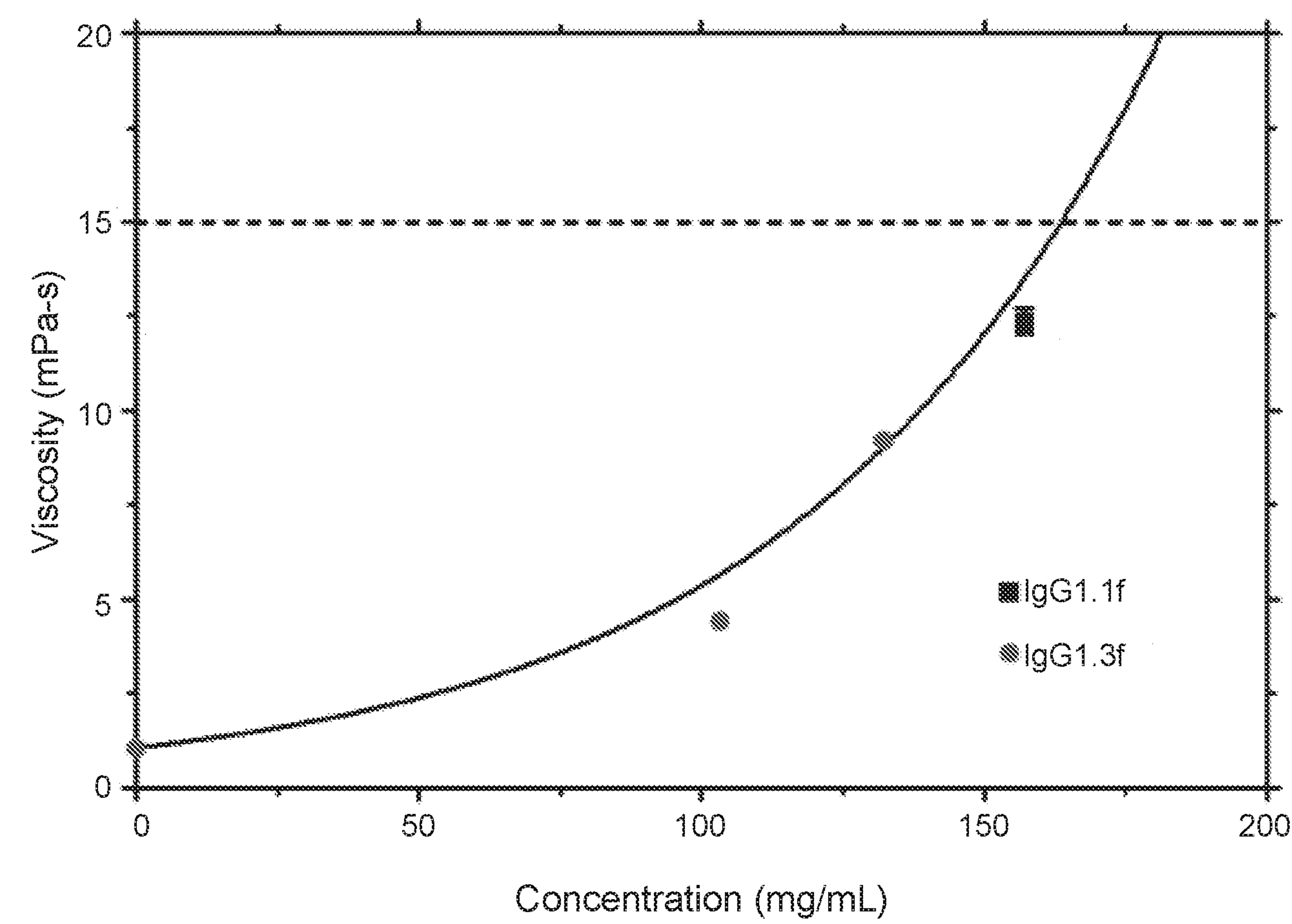


FIG. 8

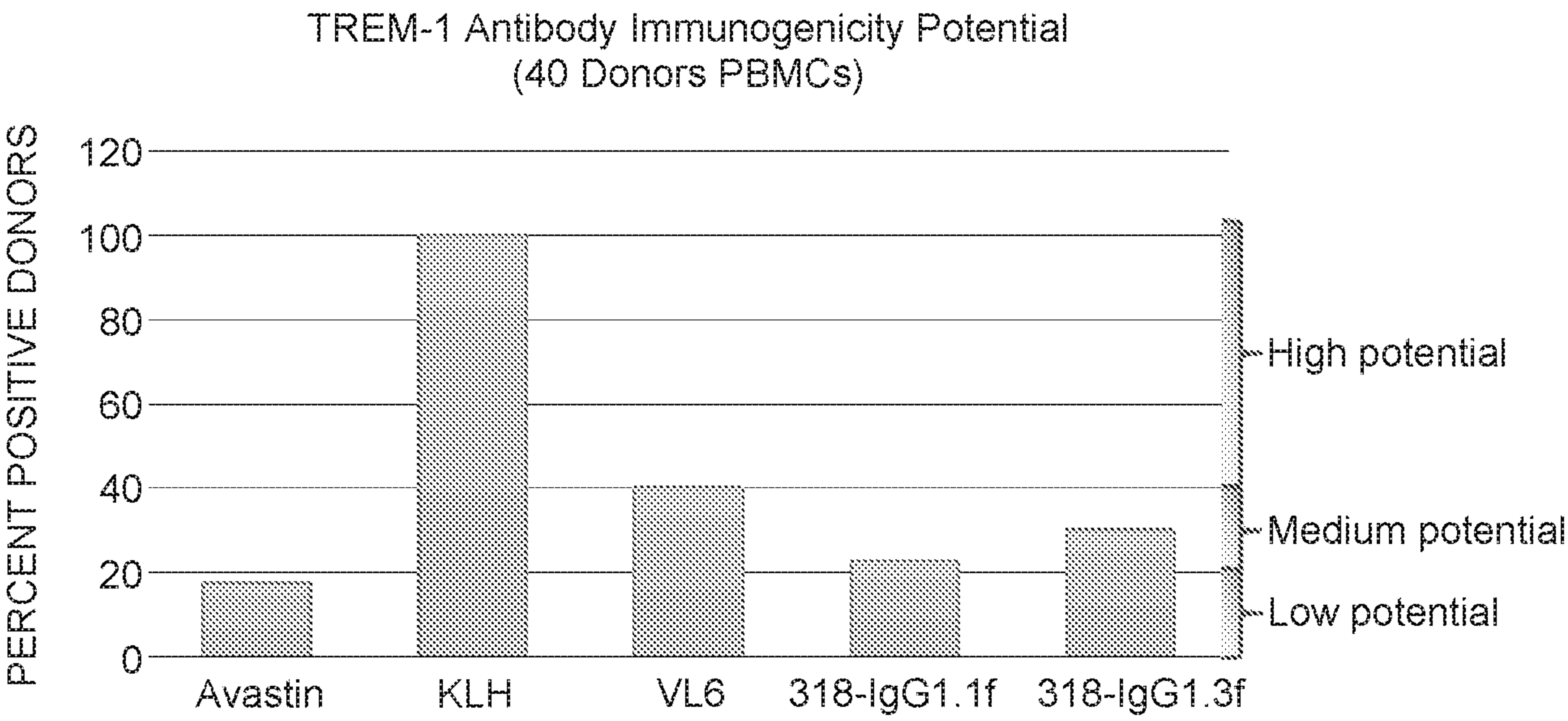


FIG. 9A

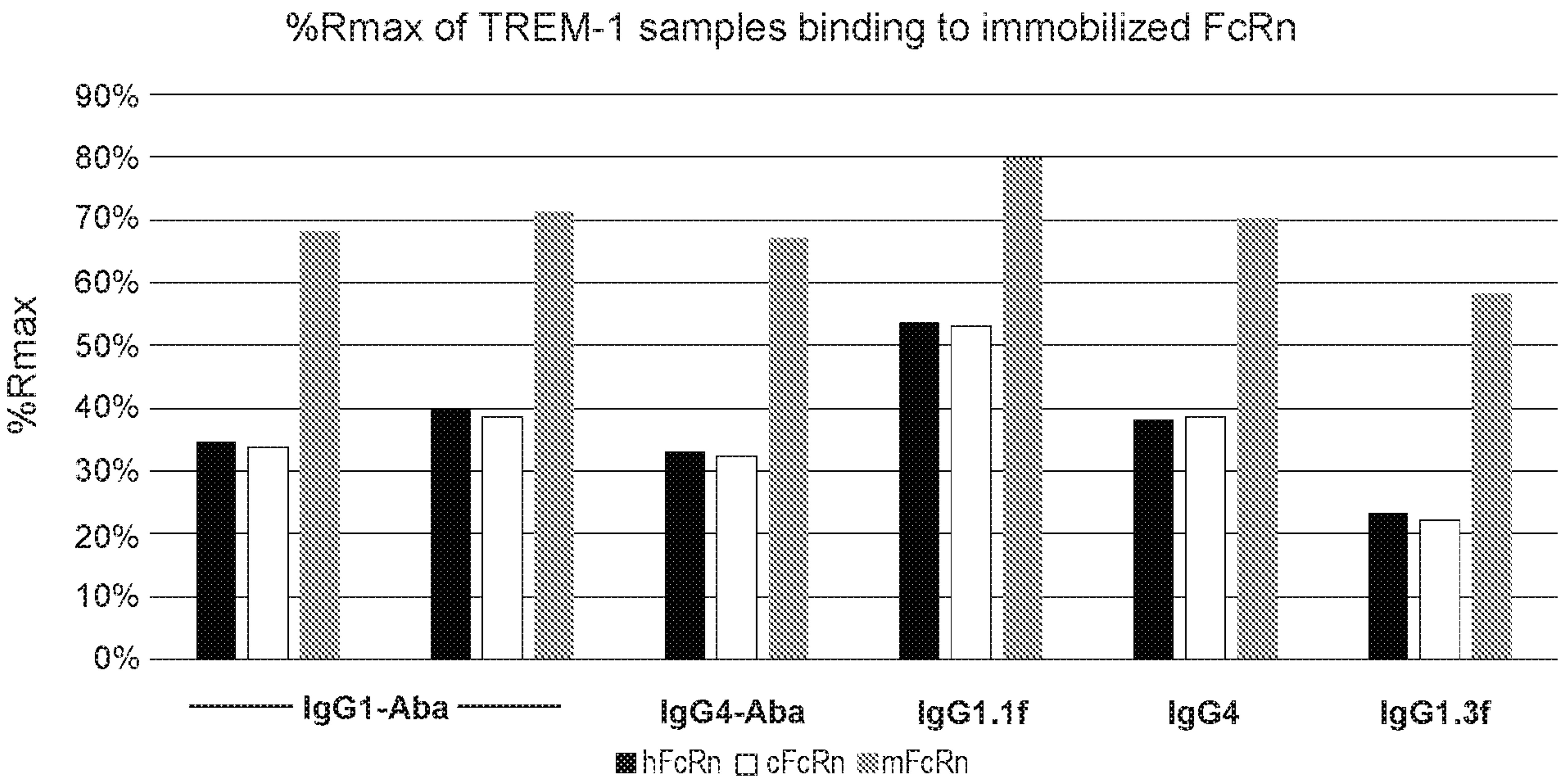


FIG. 9B

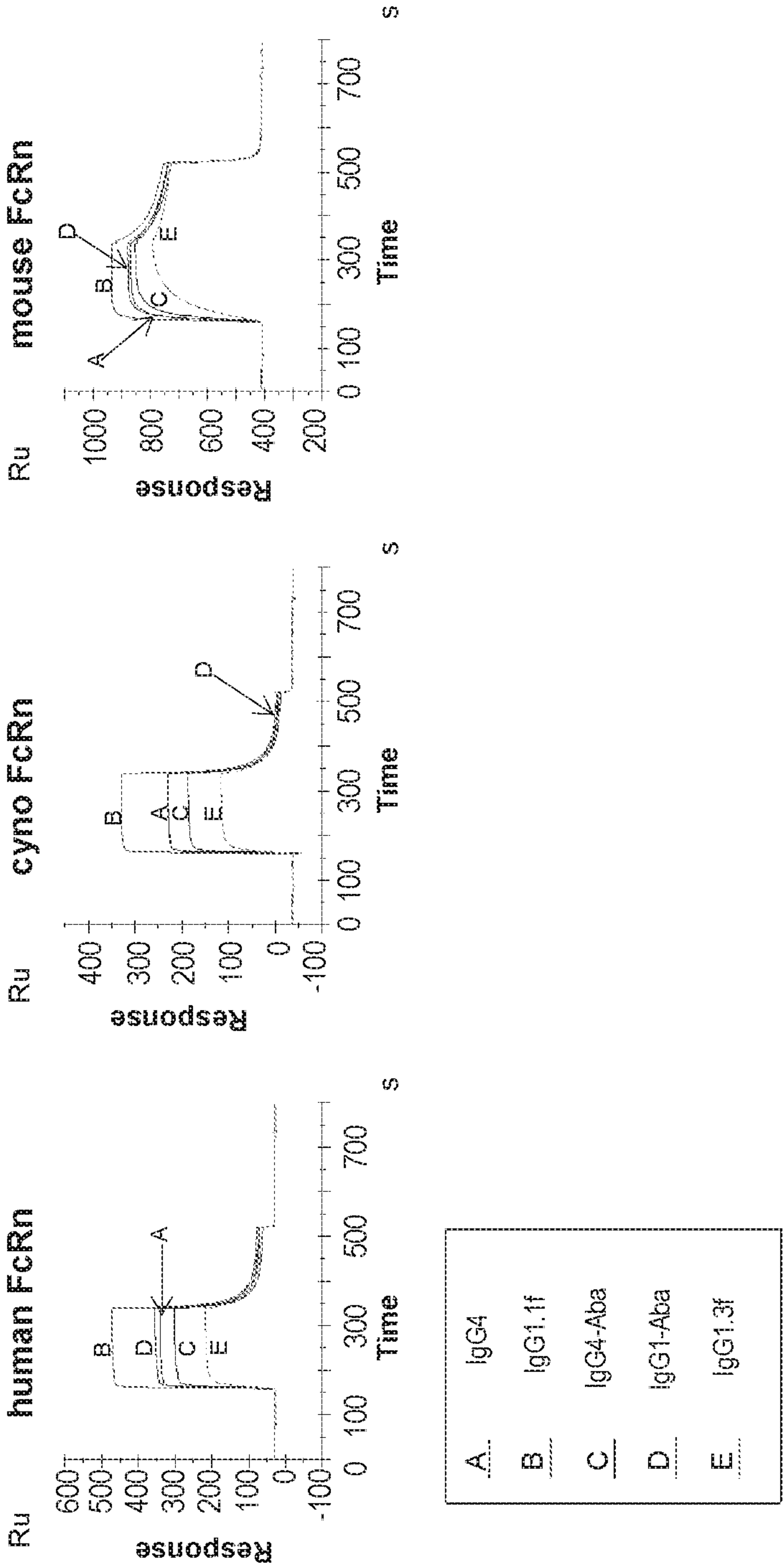


FIG. 10A

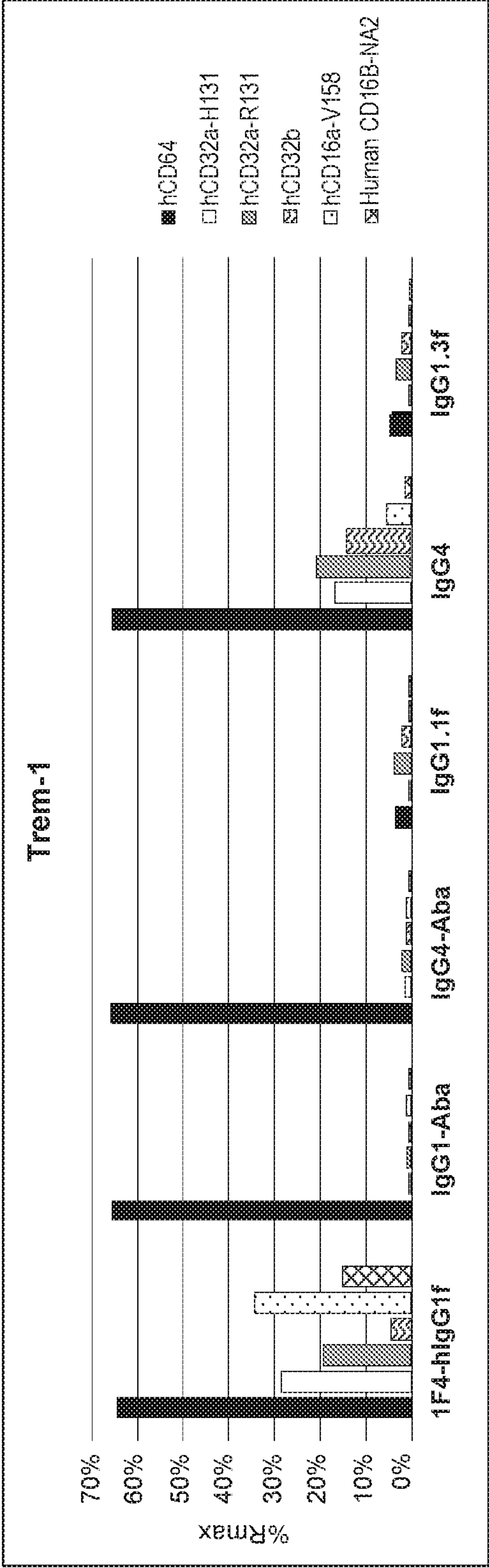


FIG. 10B

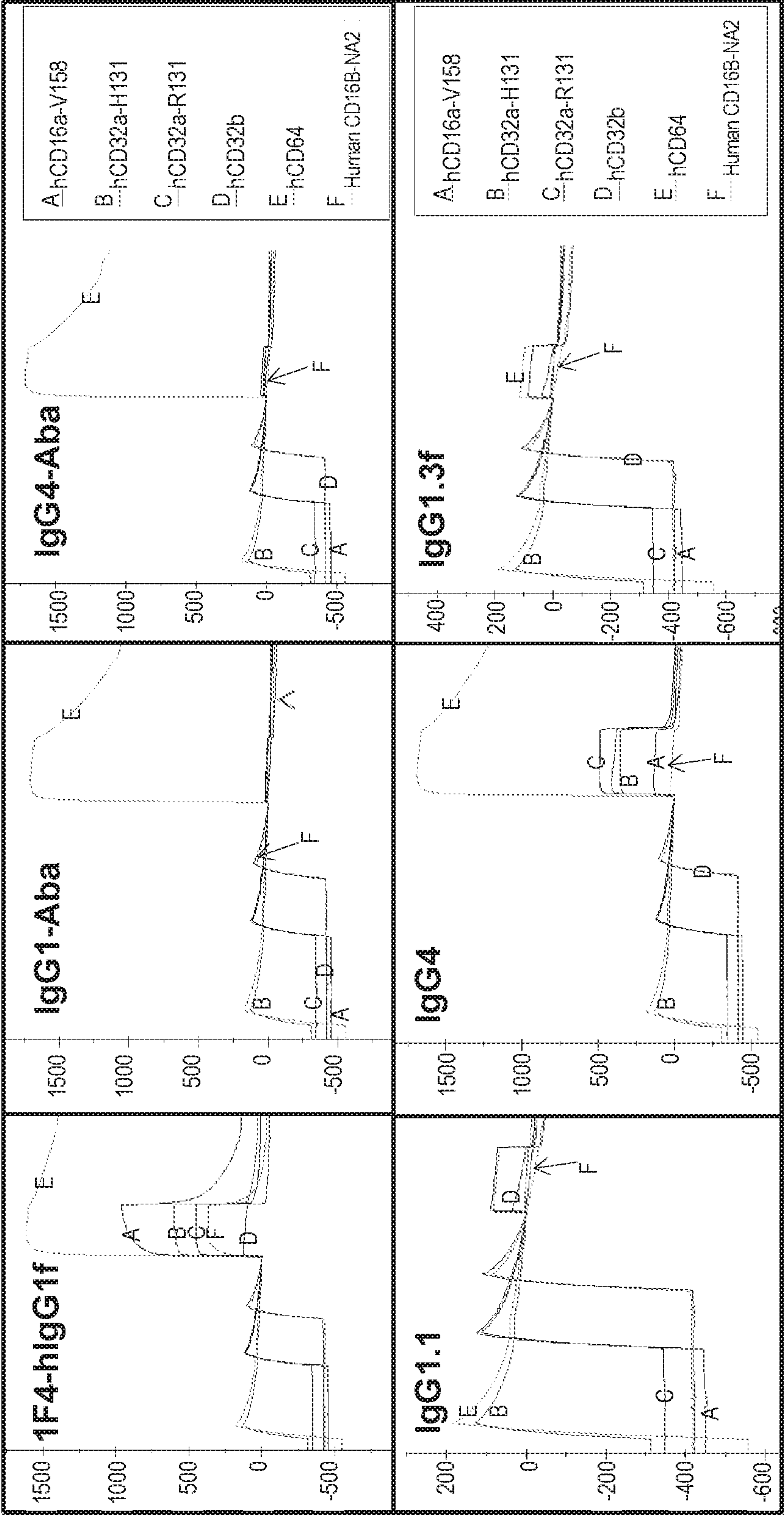


FIG. 11A

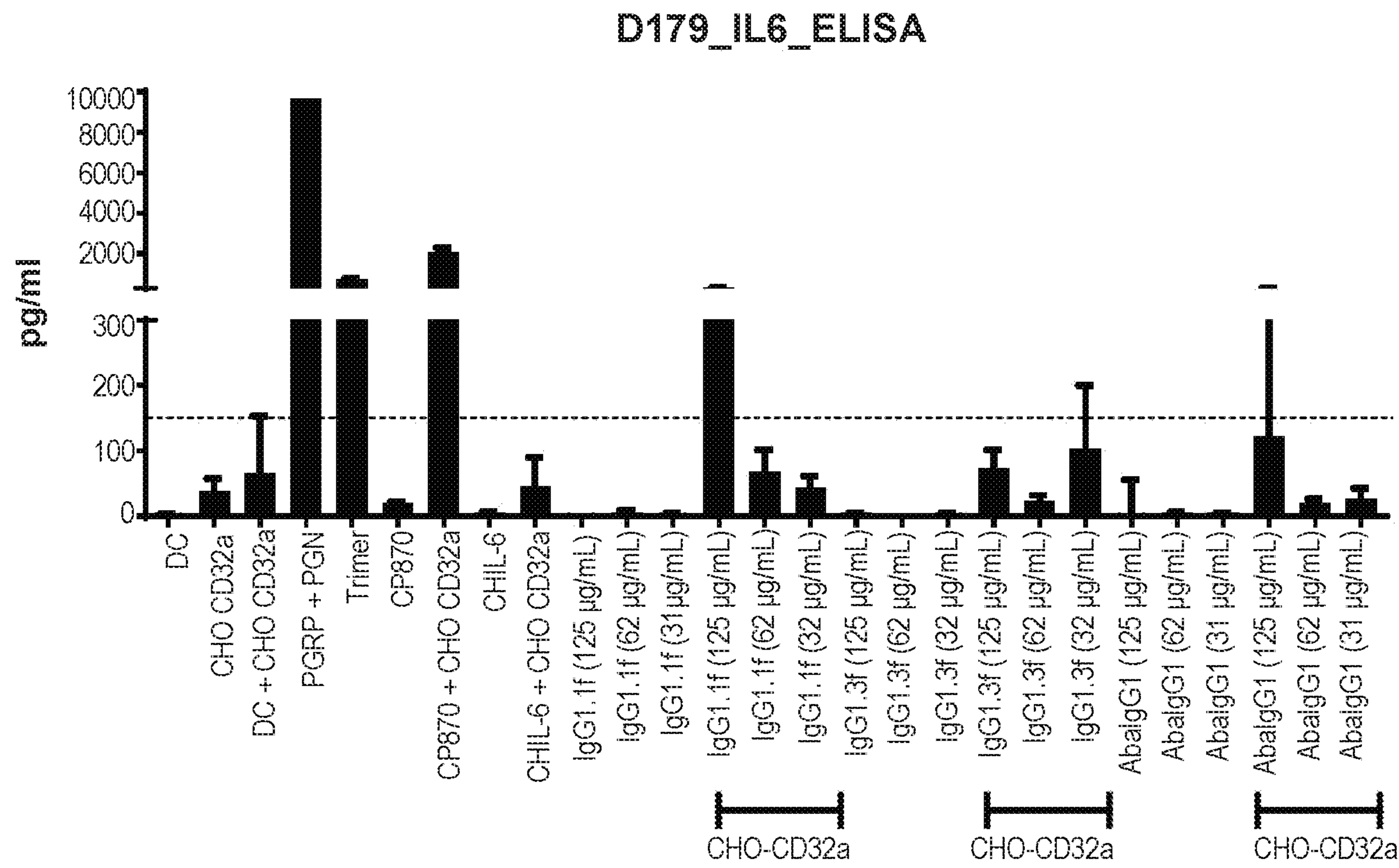


FIG. 11B

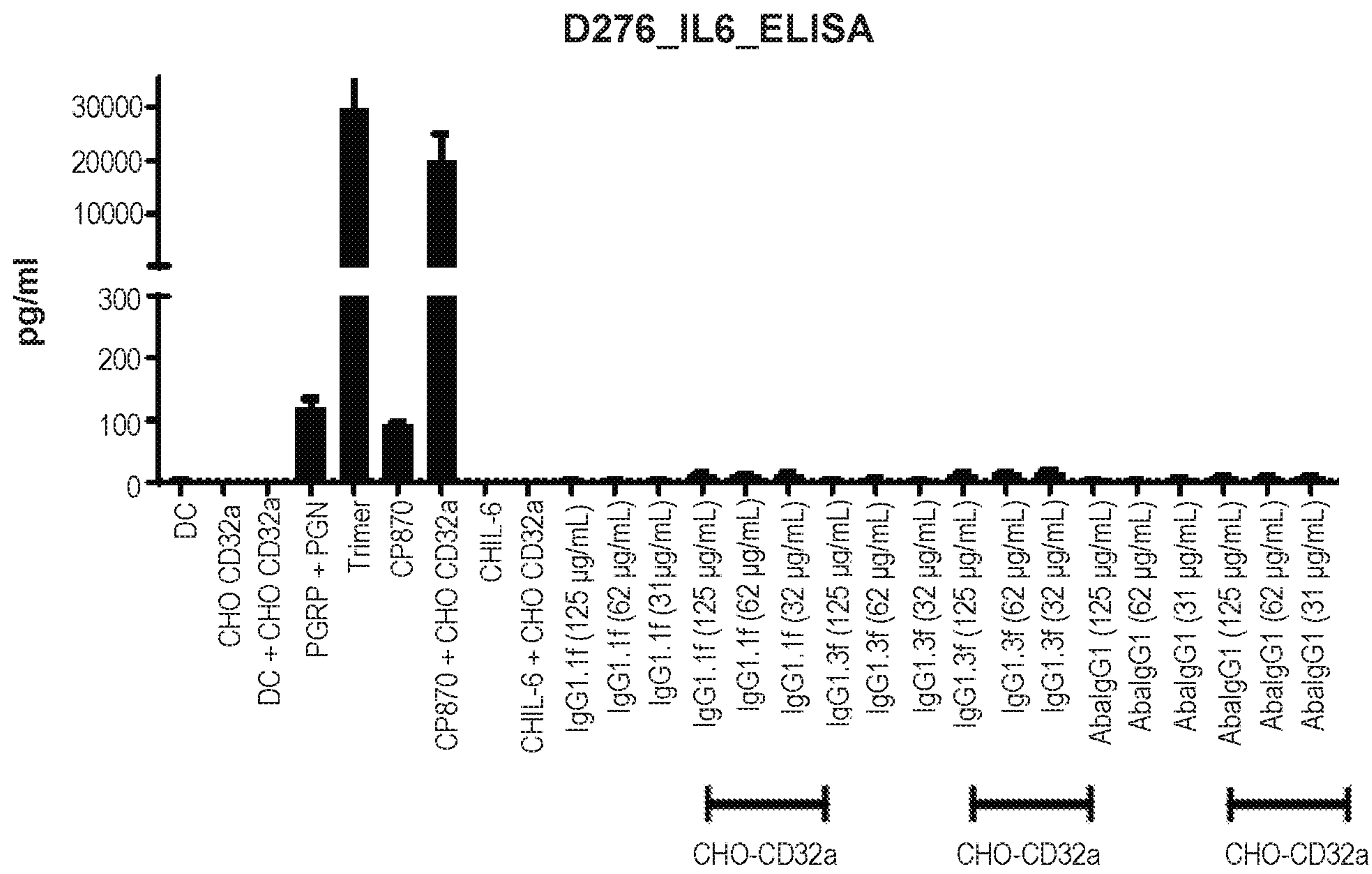


FIG. 11C

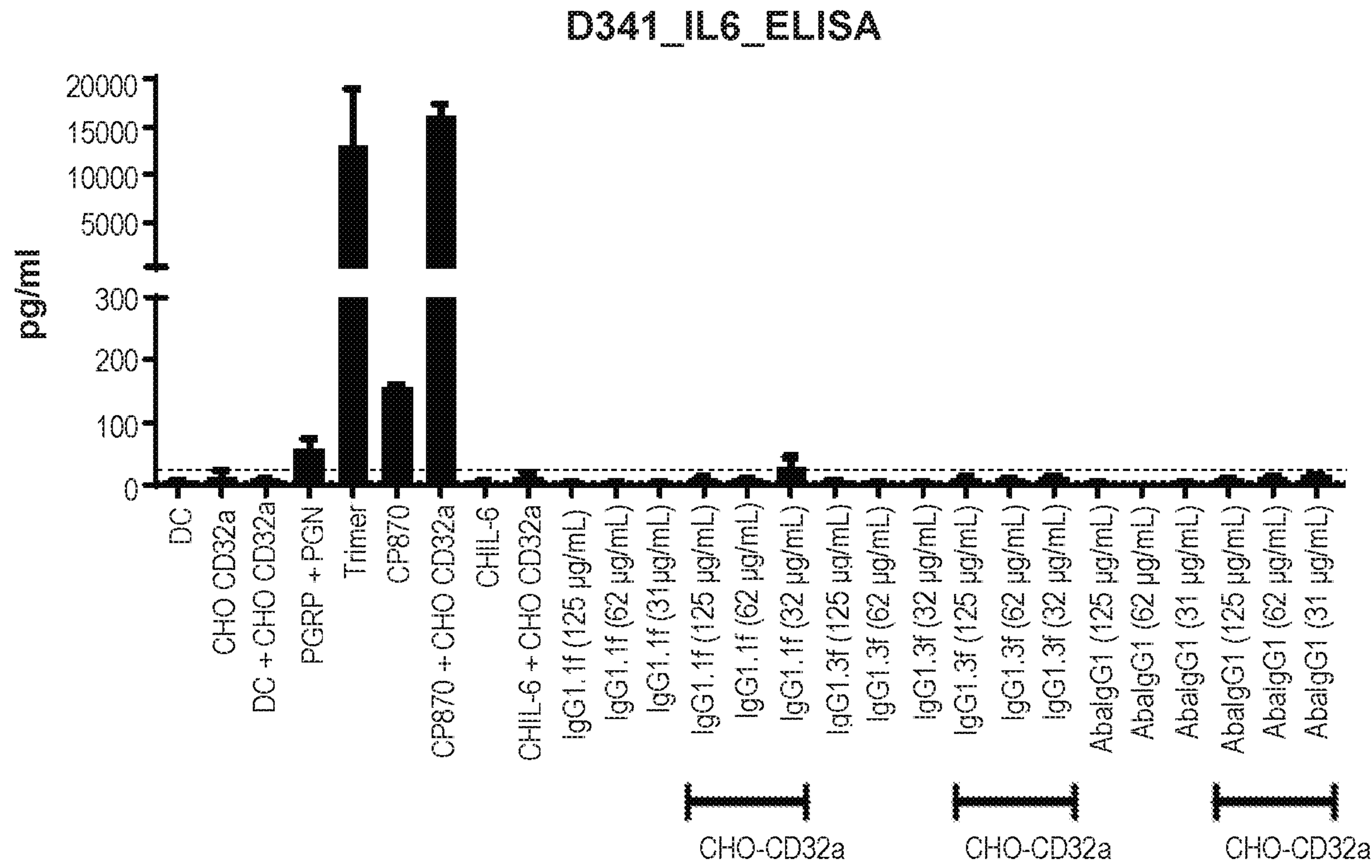


FIG. 11D

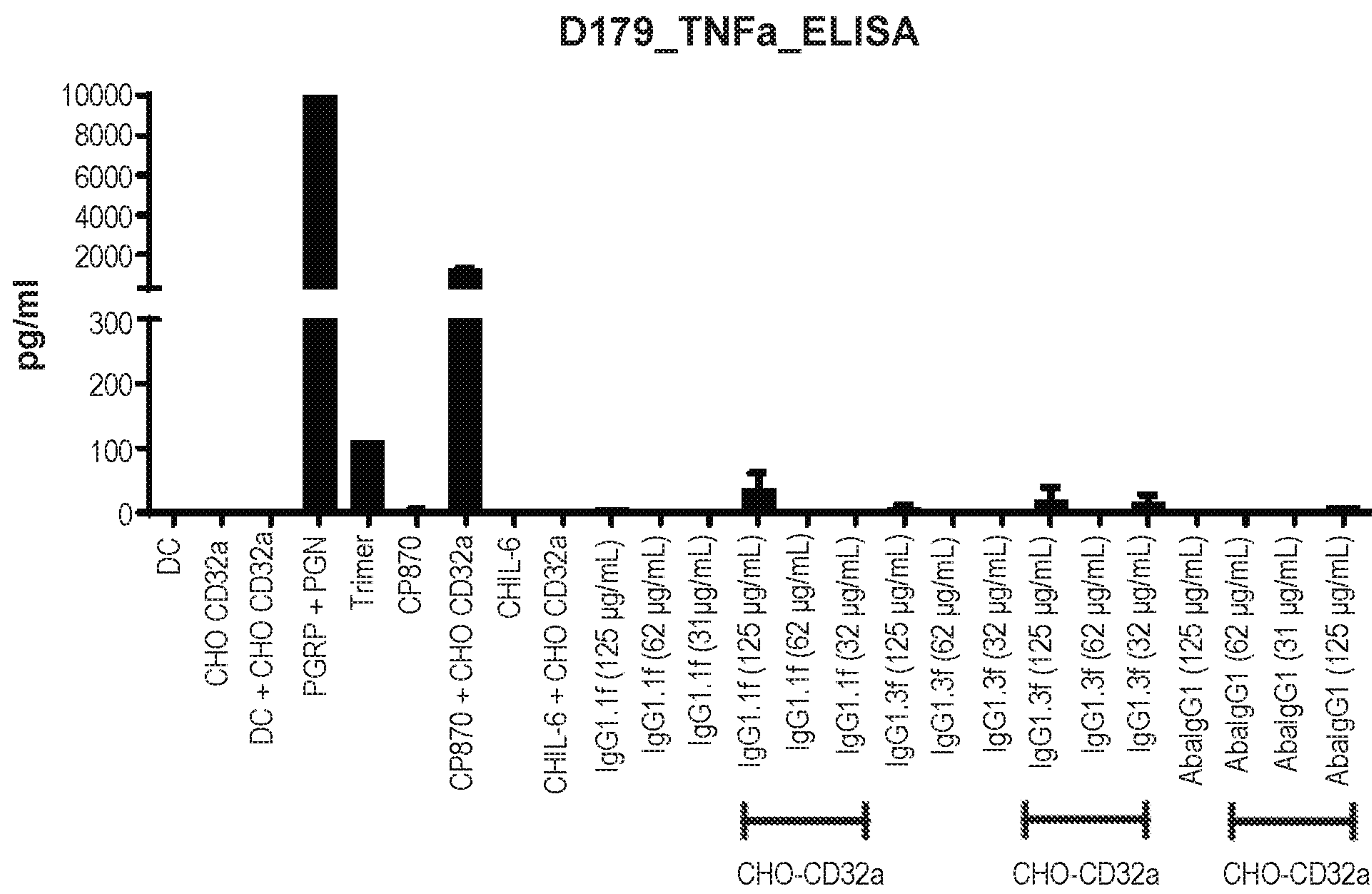


FIG. 11E

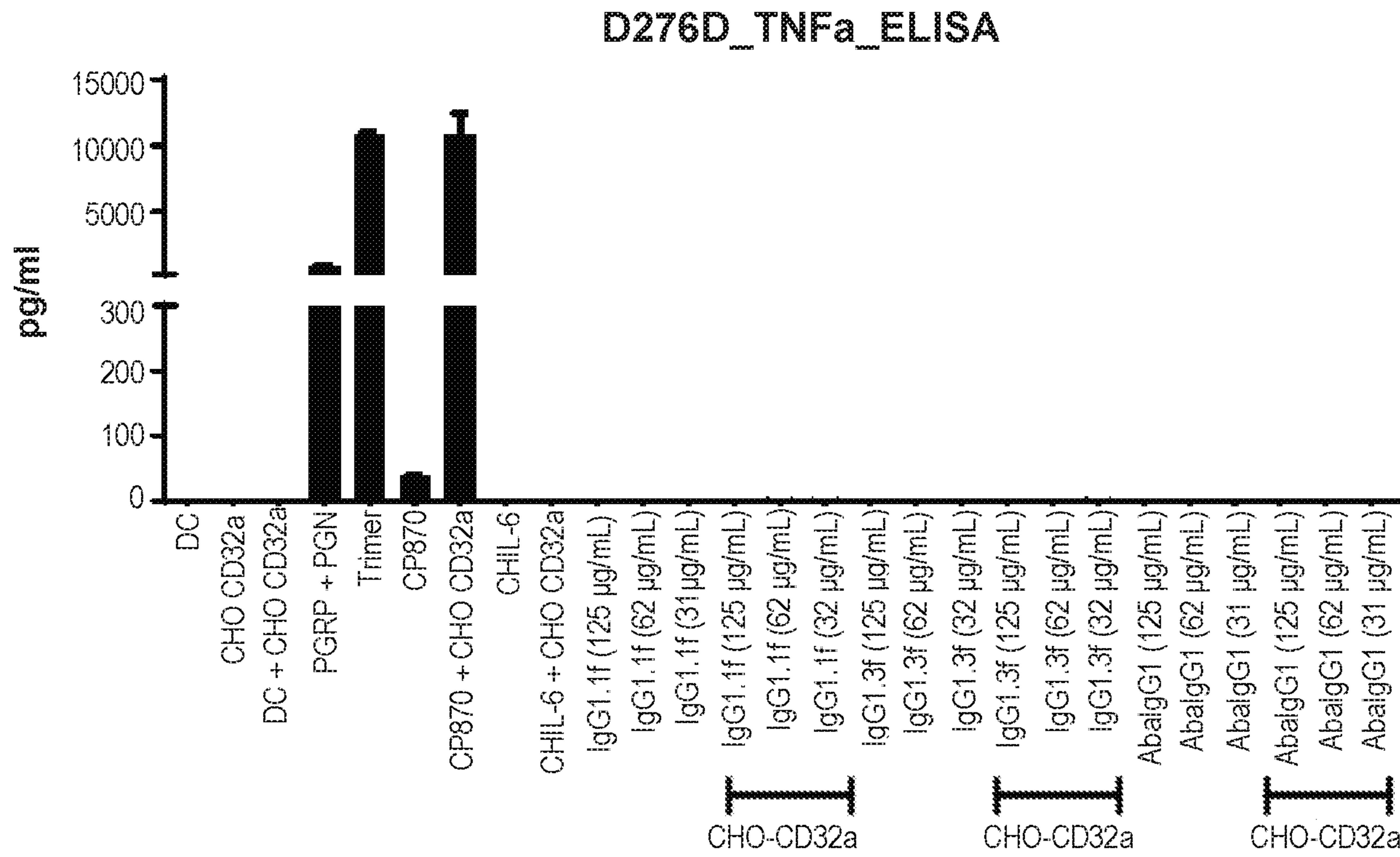


FIG. 11F

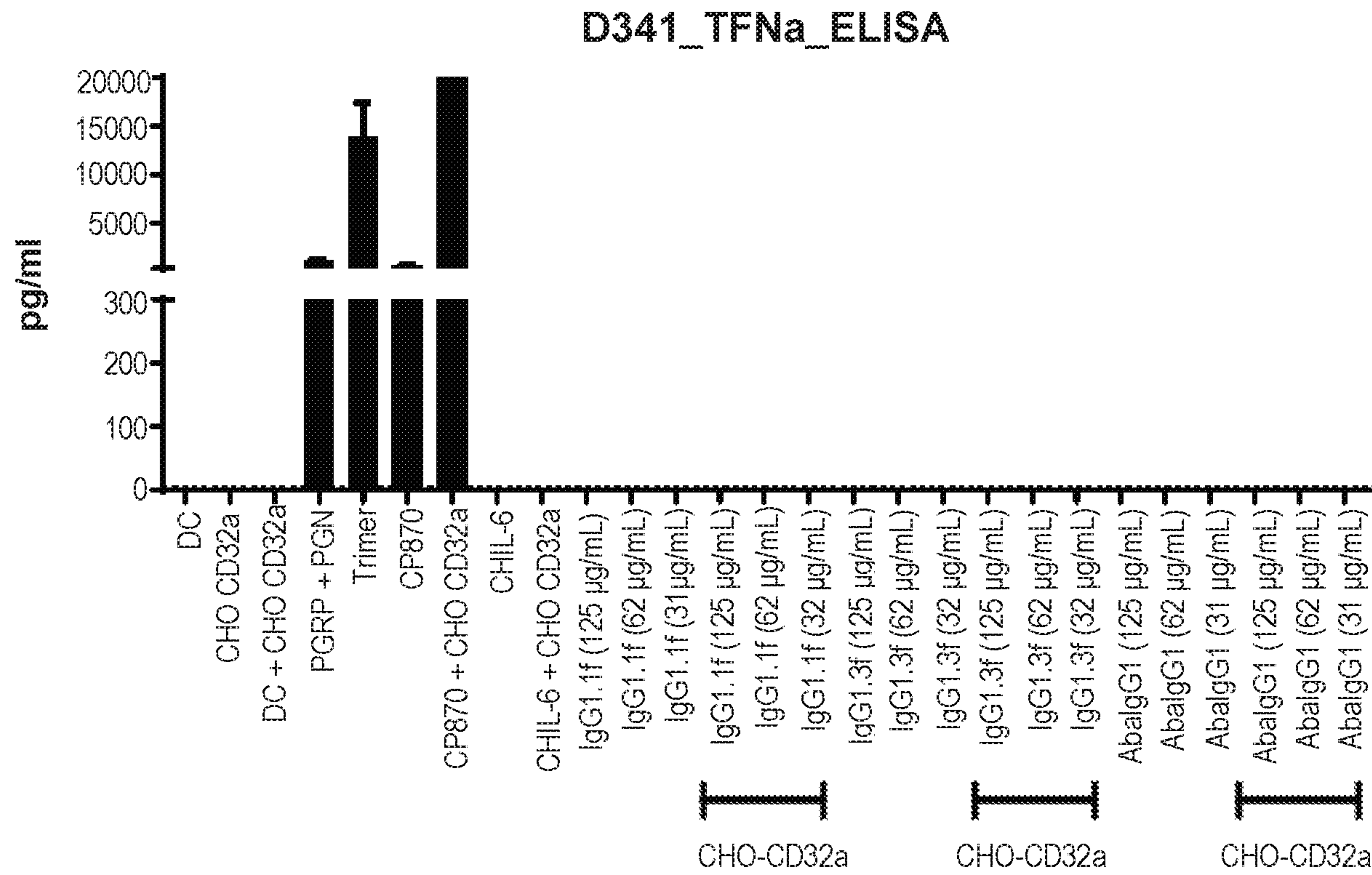


FIG. 11G

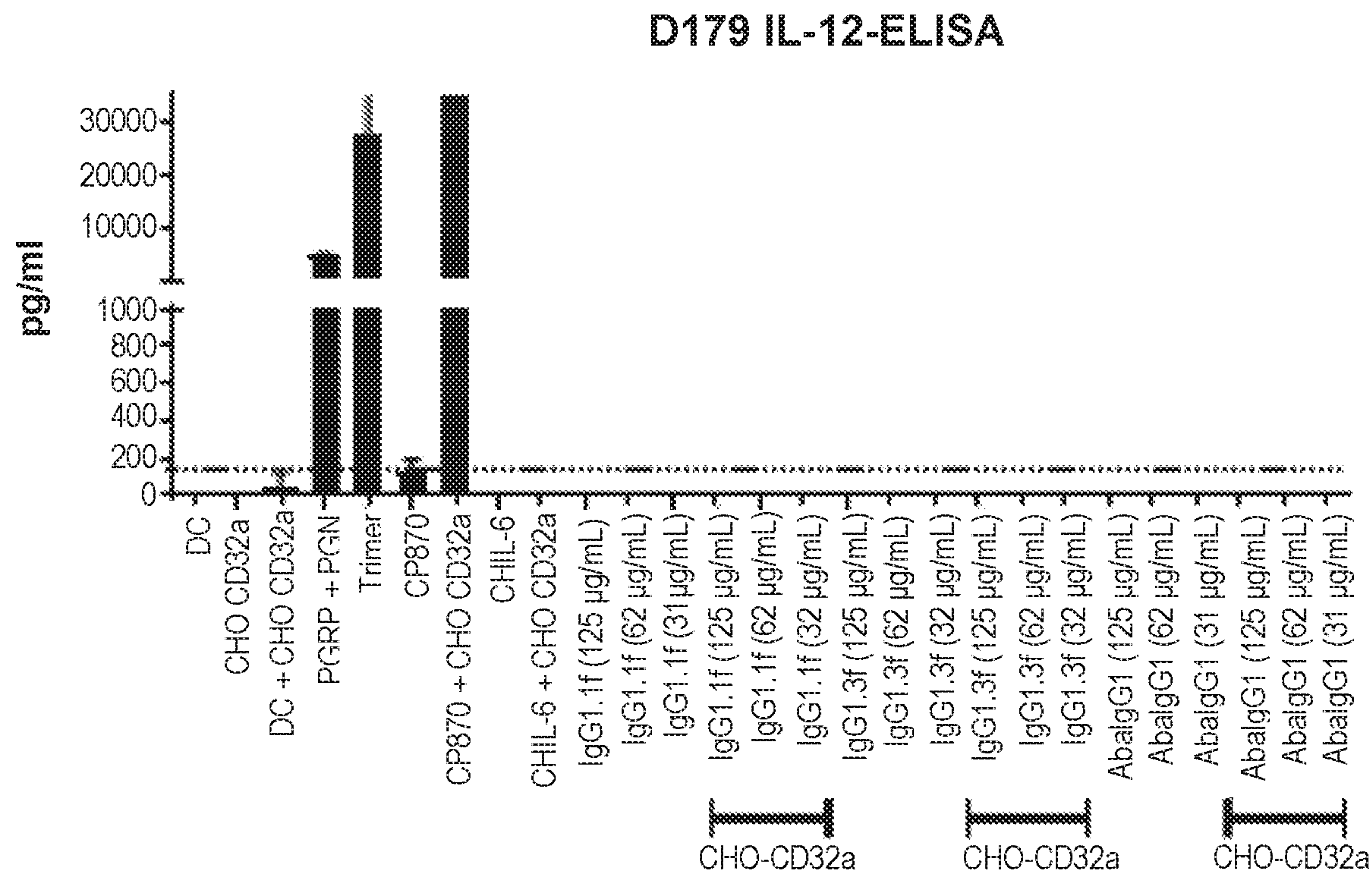


FIG. 11H

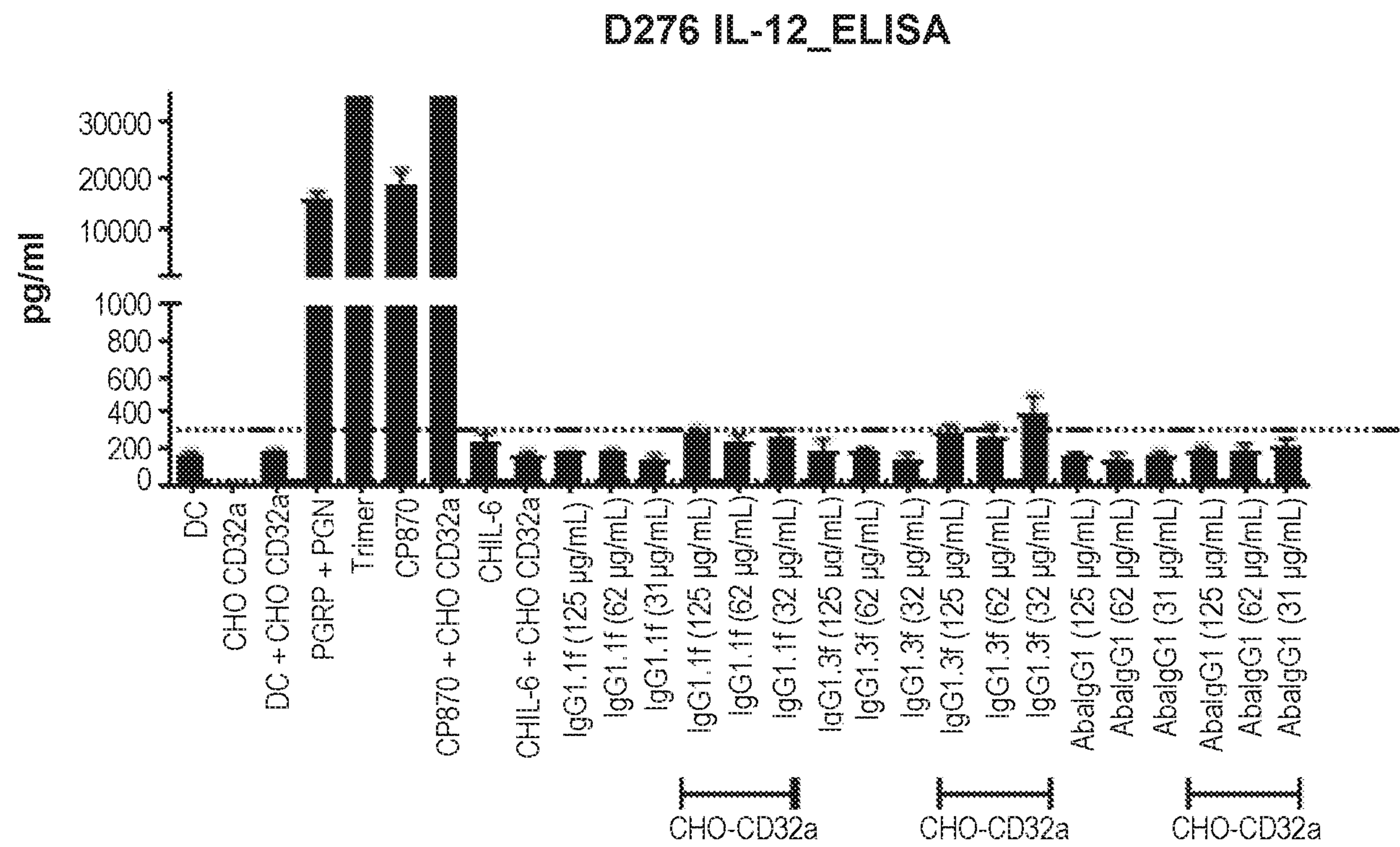


FIG. 11I

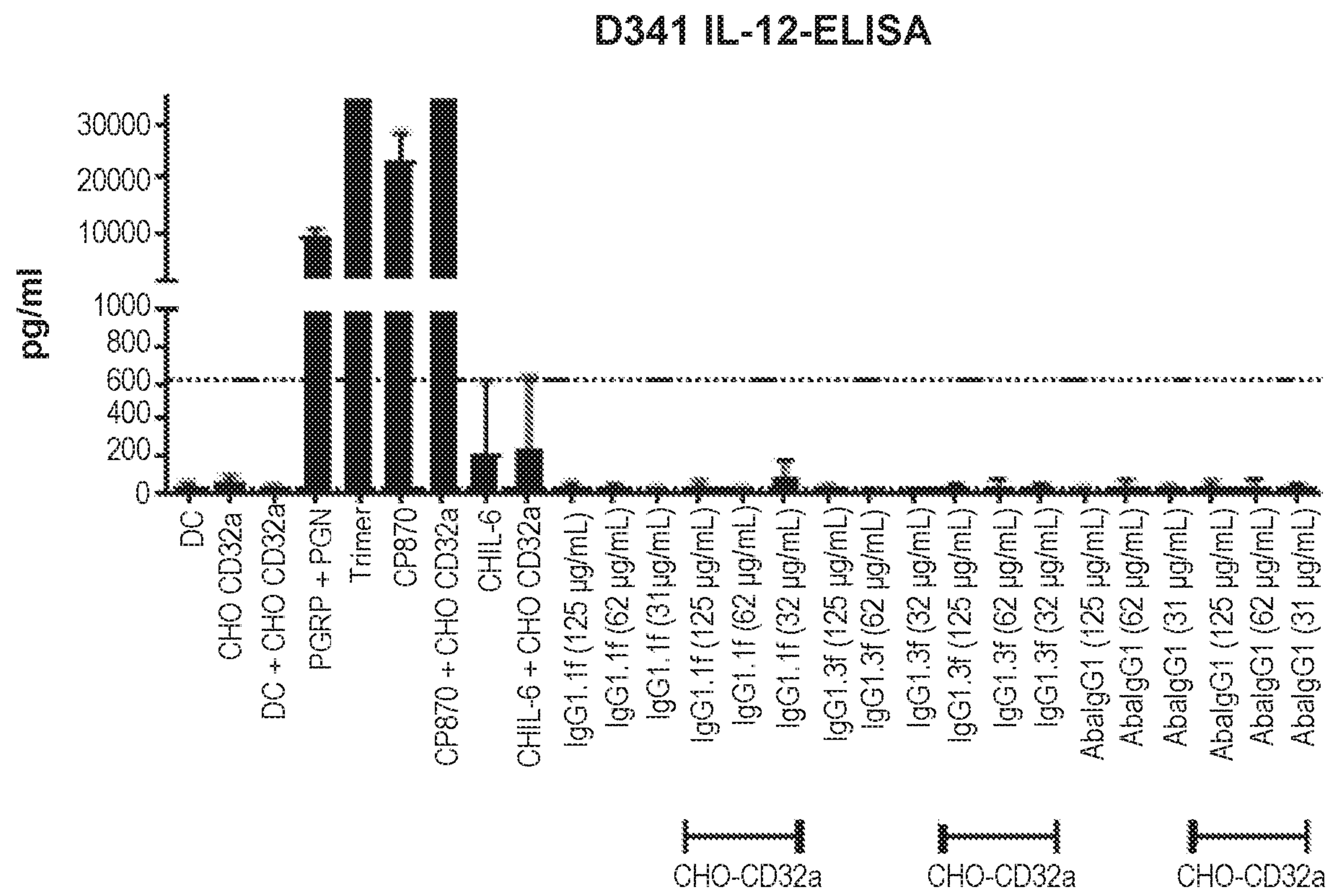


FIG. 12

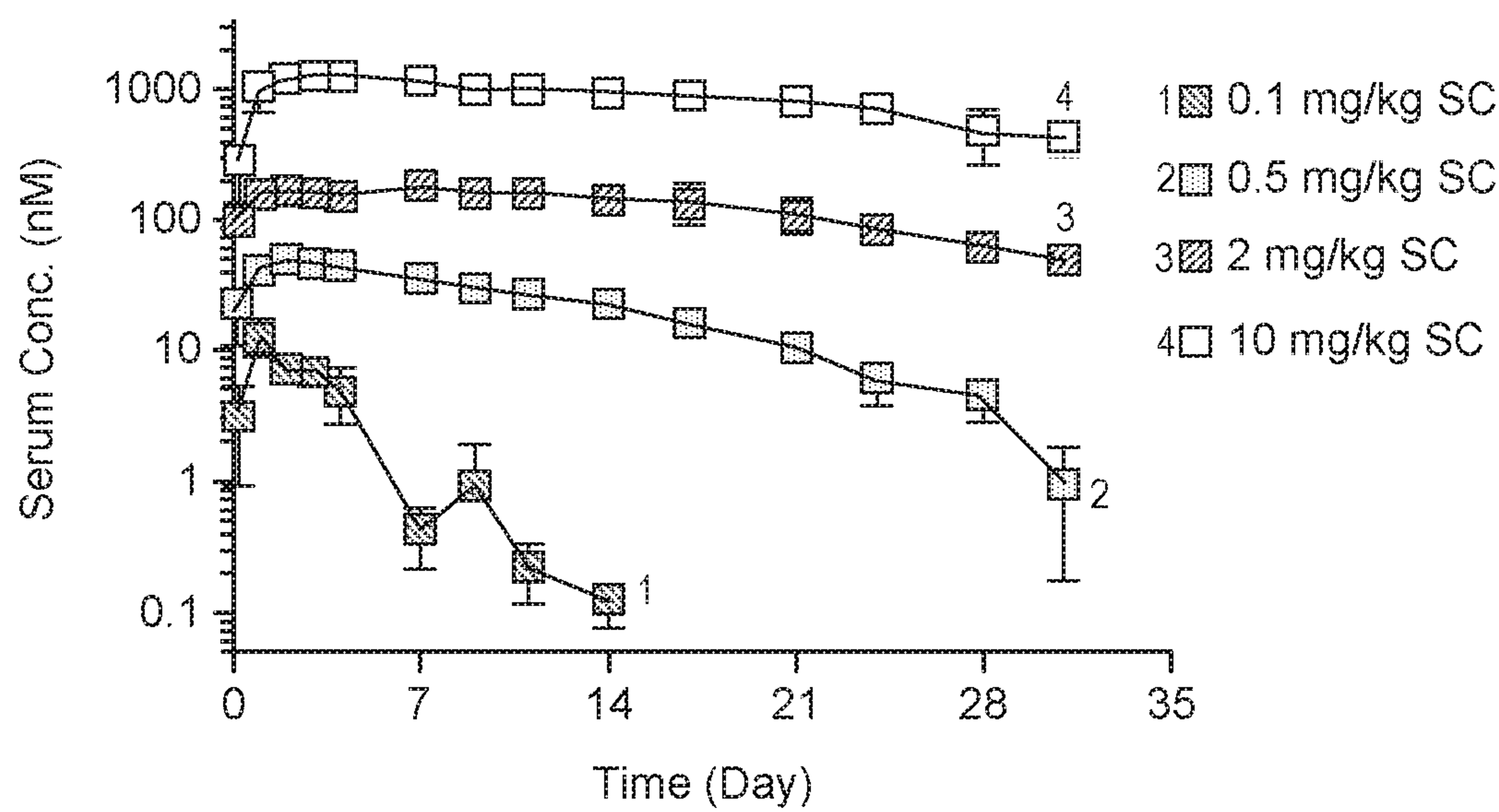
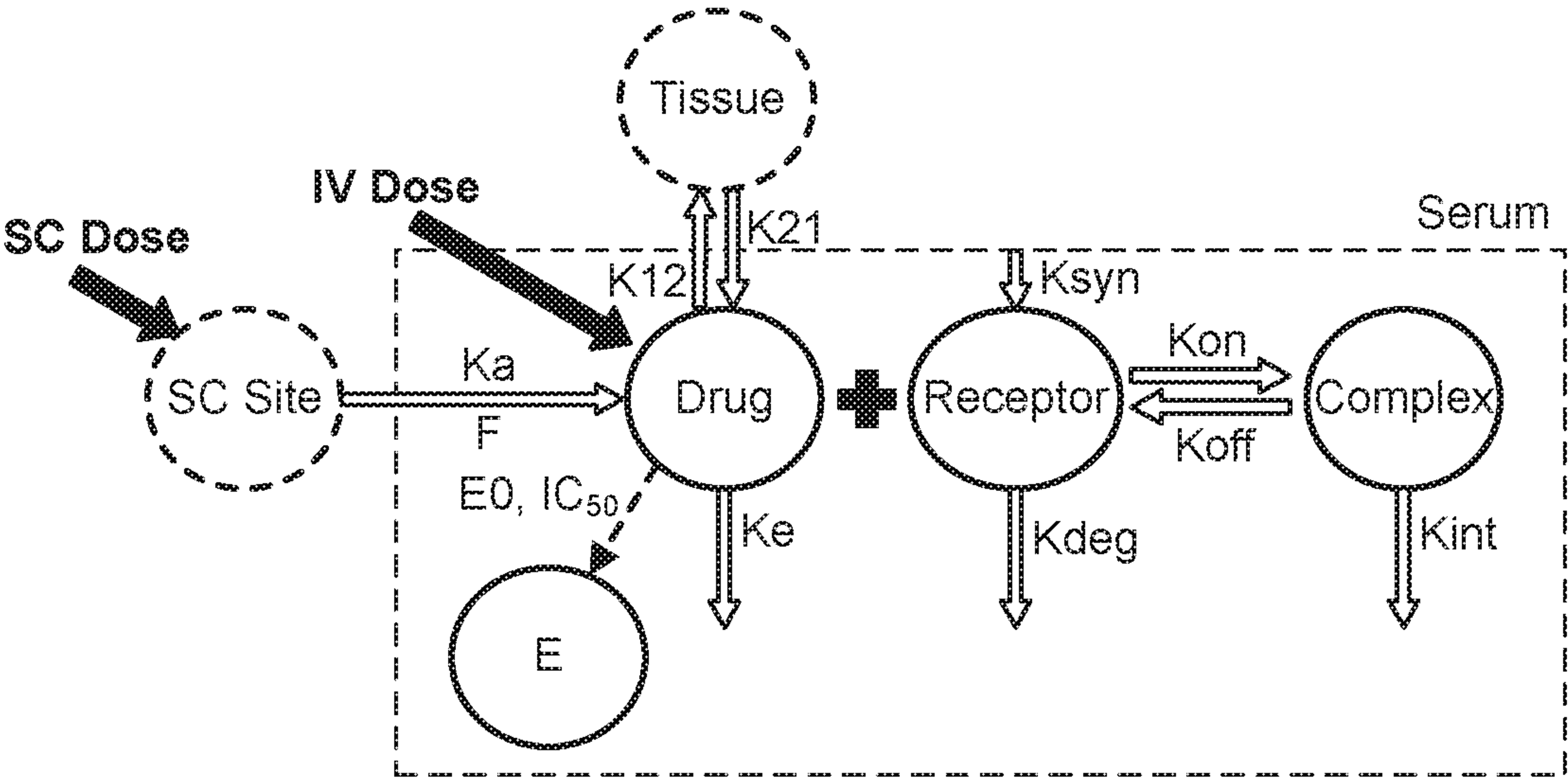


FIG. 13



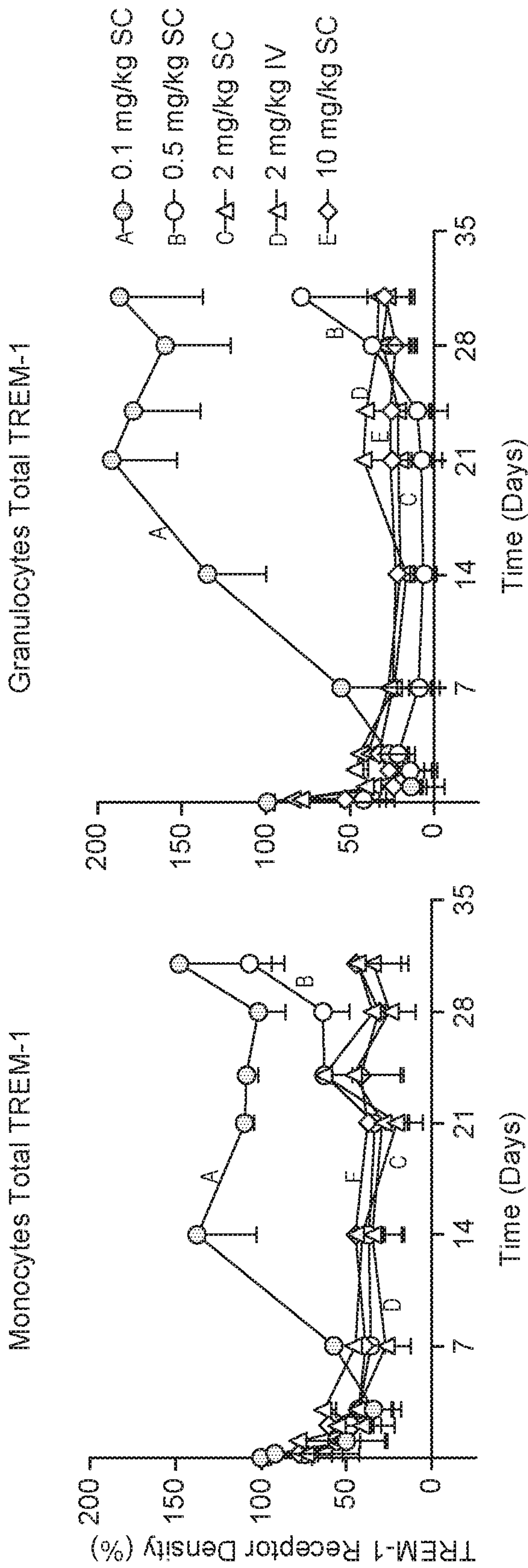


FIG. 14A

FIG. 14B

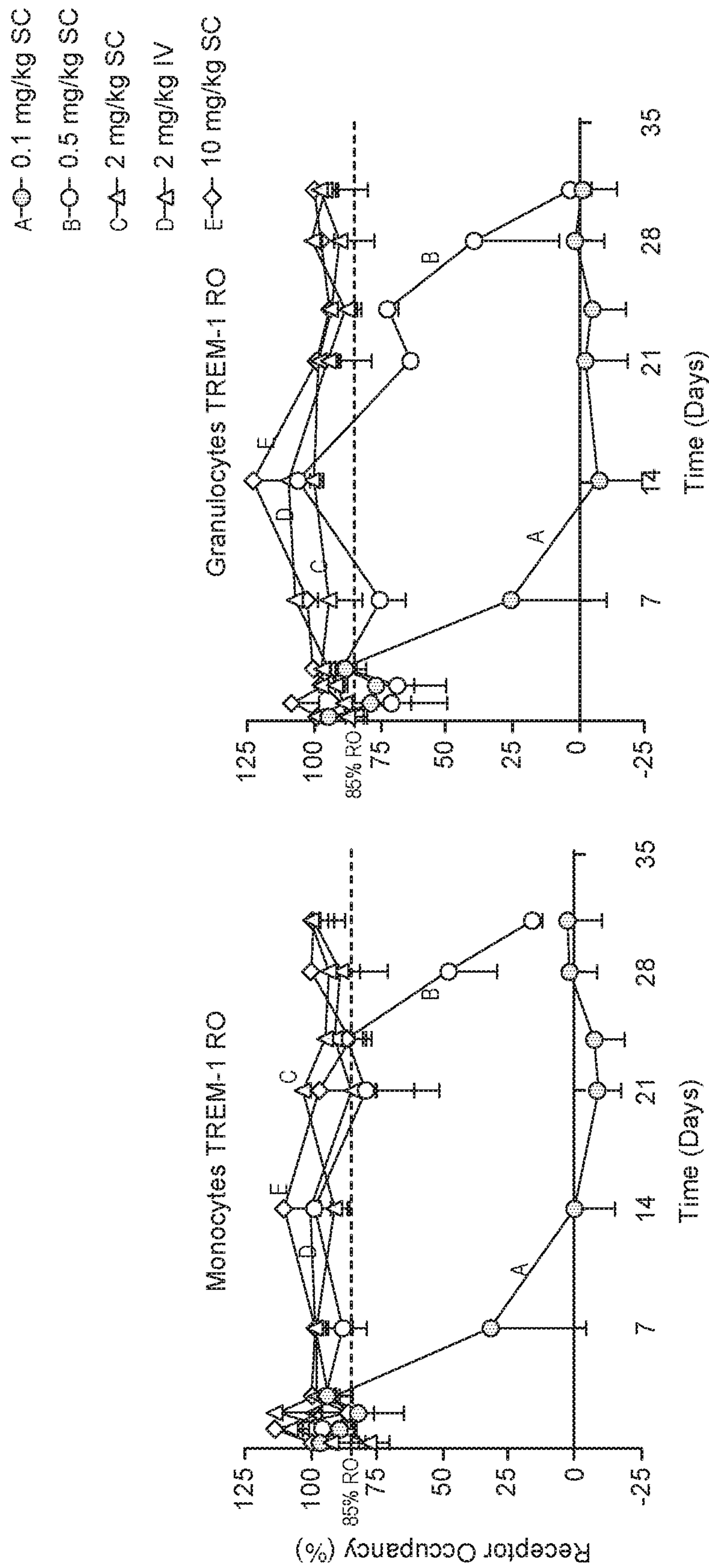


FIG. 15B

FIG. 15A

FIG. 16A

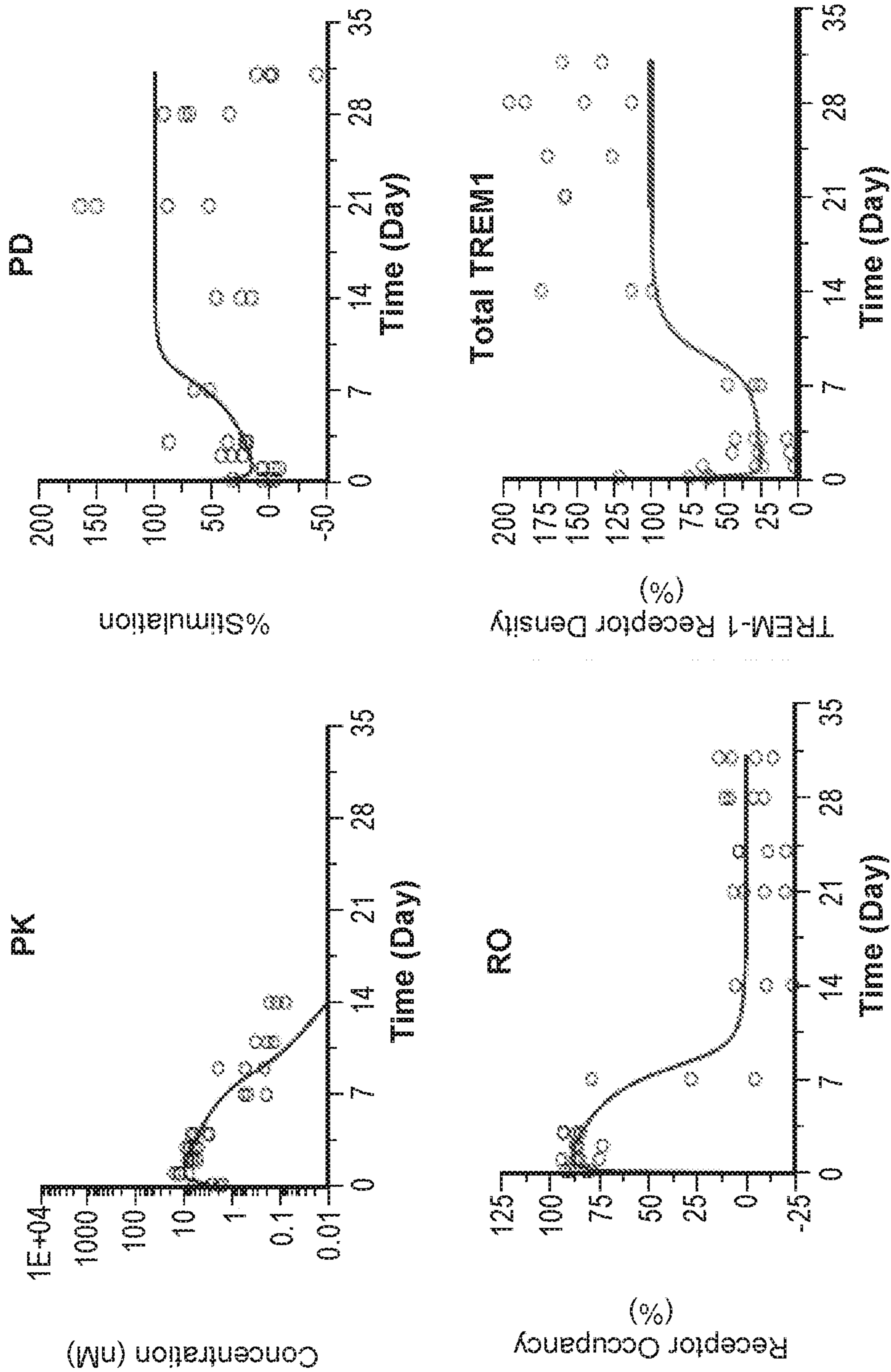


FIG. 16B

