

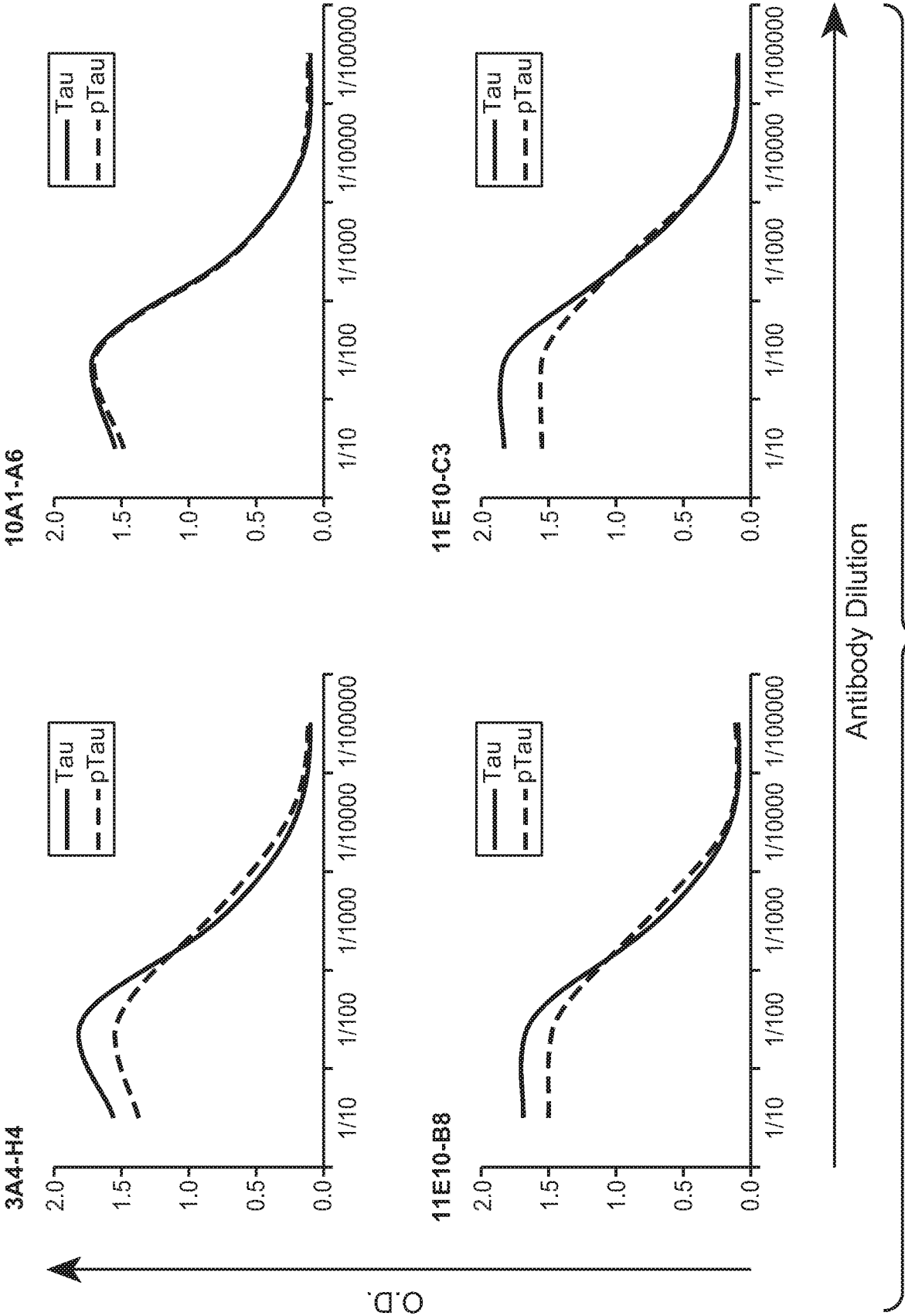


FIG. 1A

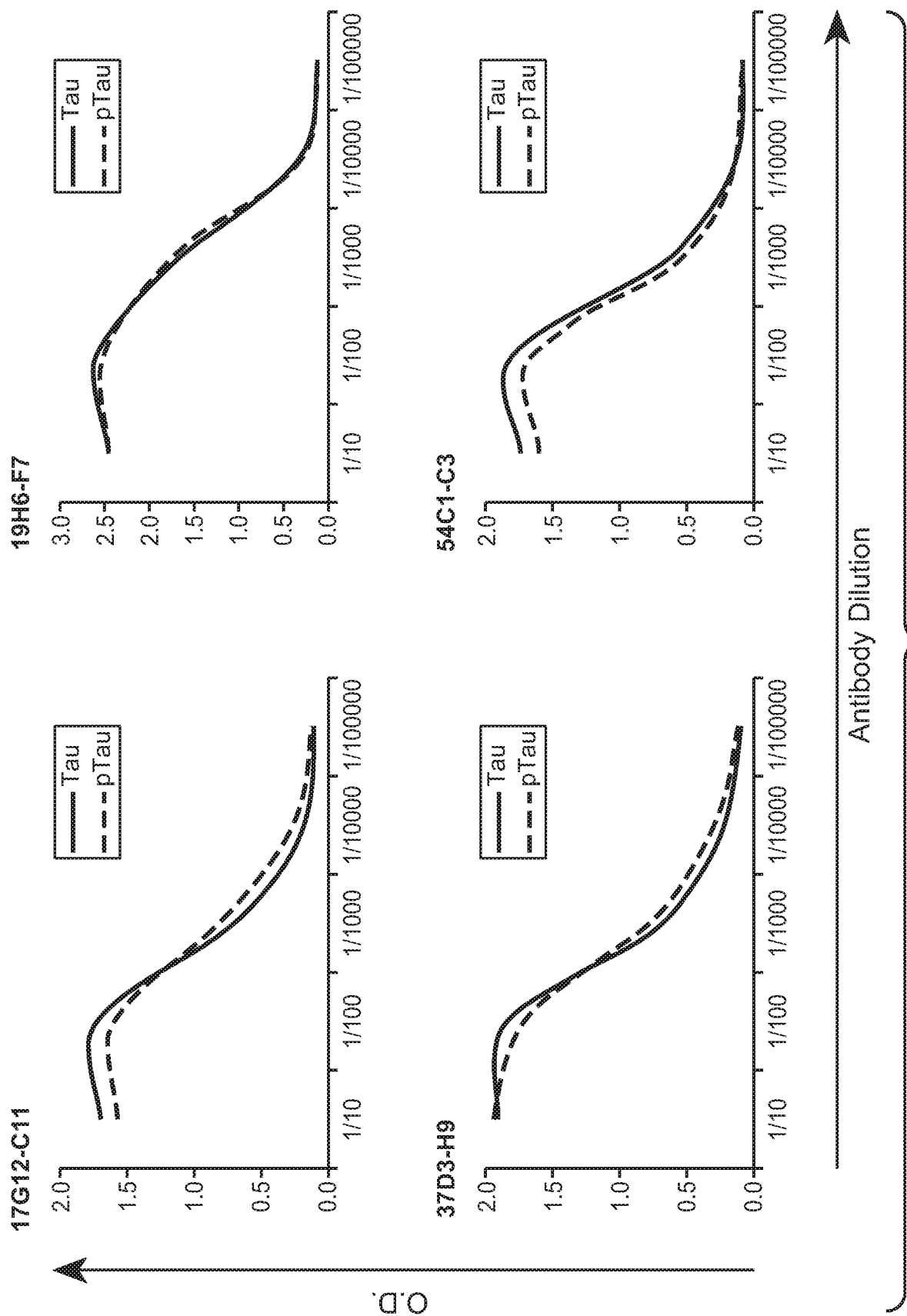


FIG. 1B

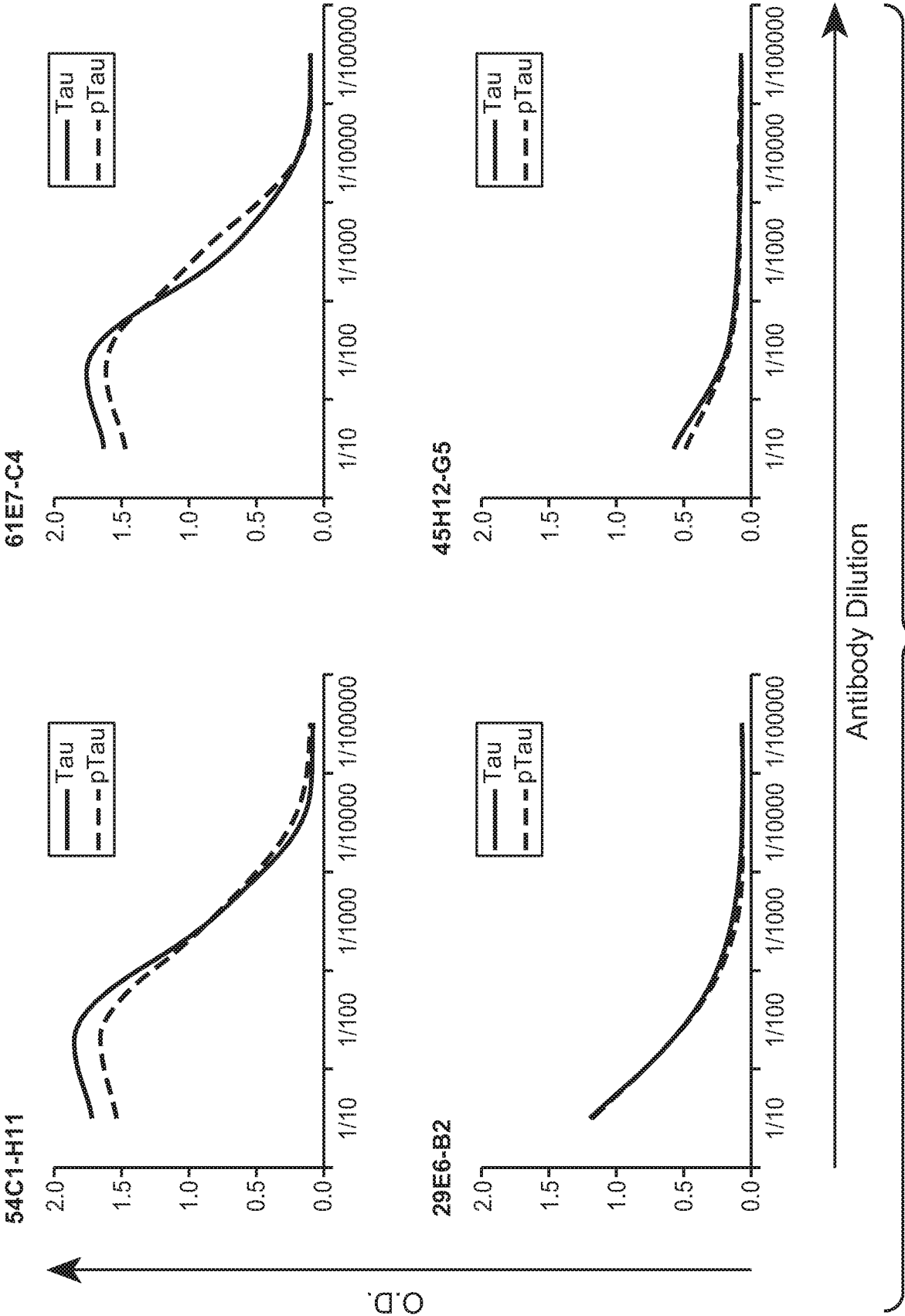


FIG. 1C

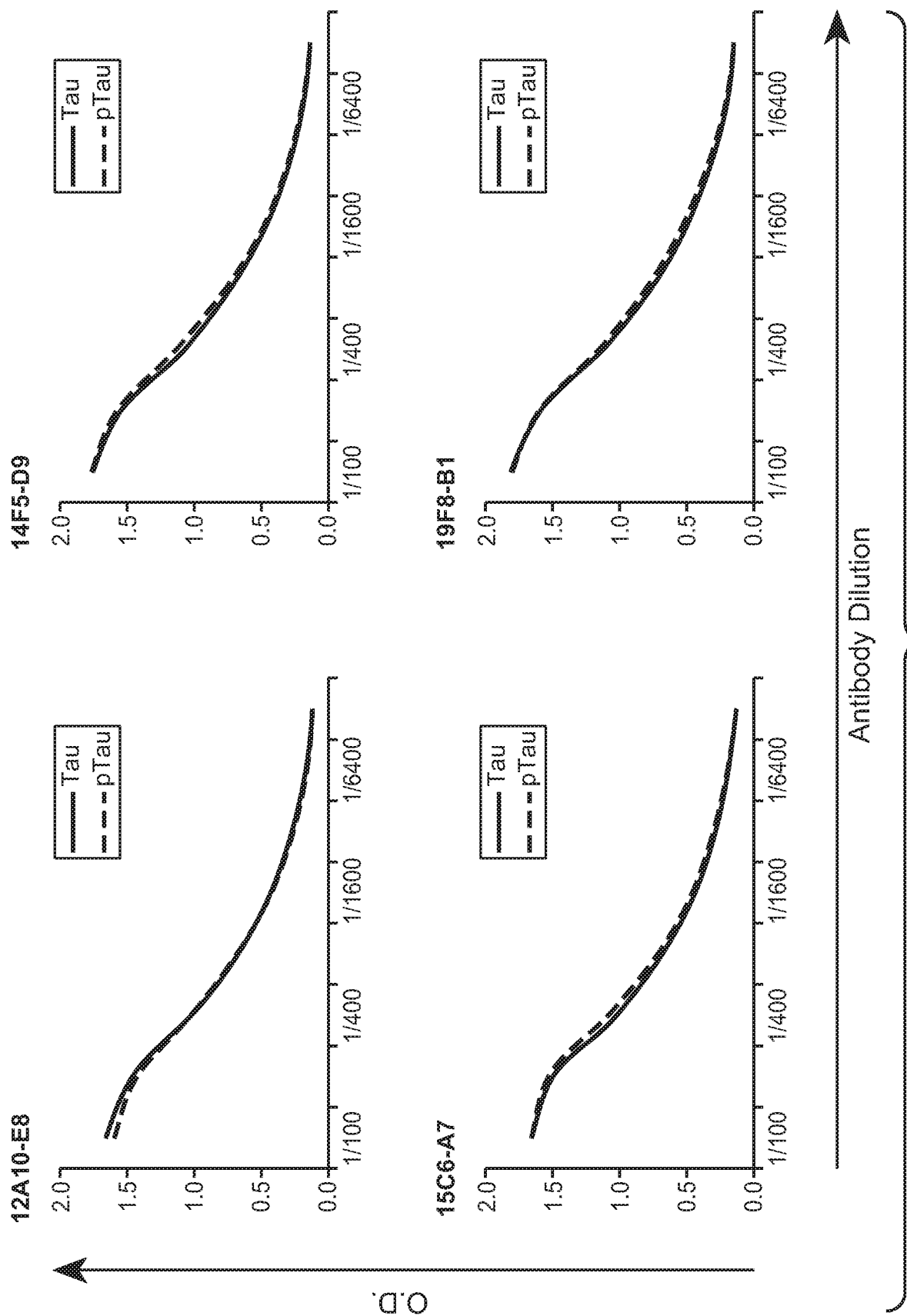


FIG. 1D

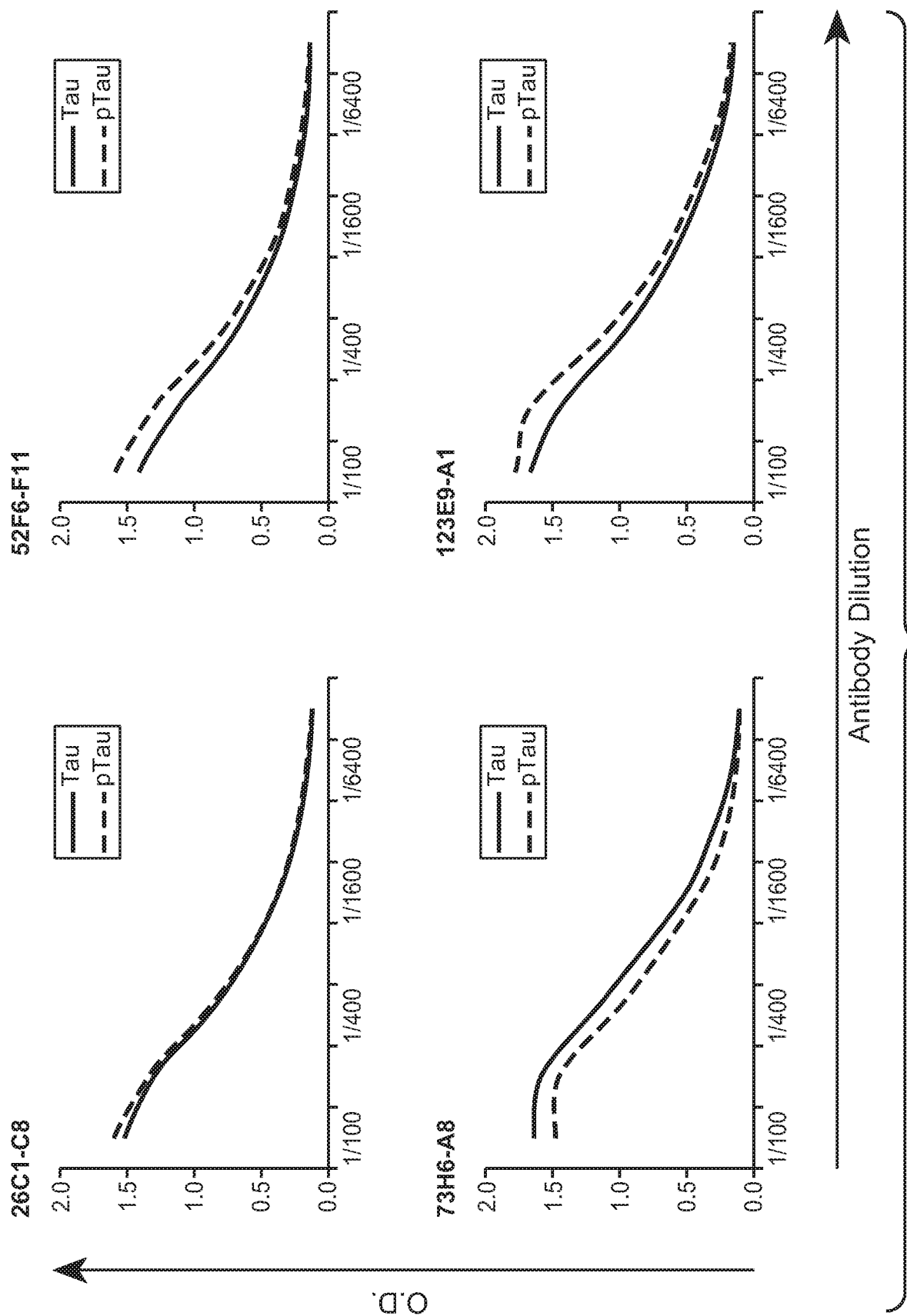


FIG. 1E

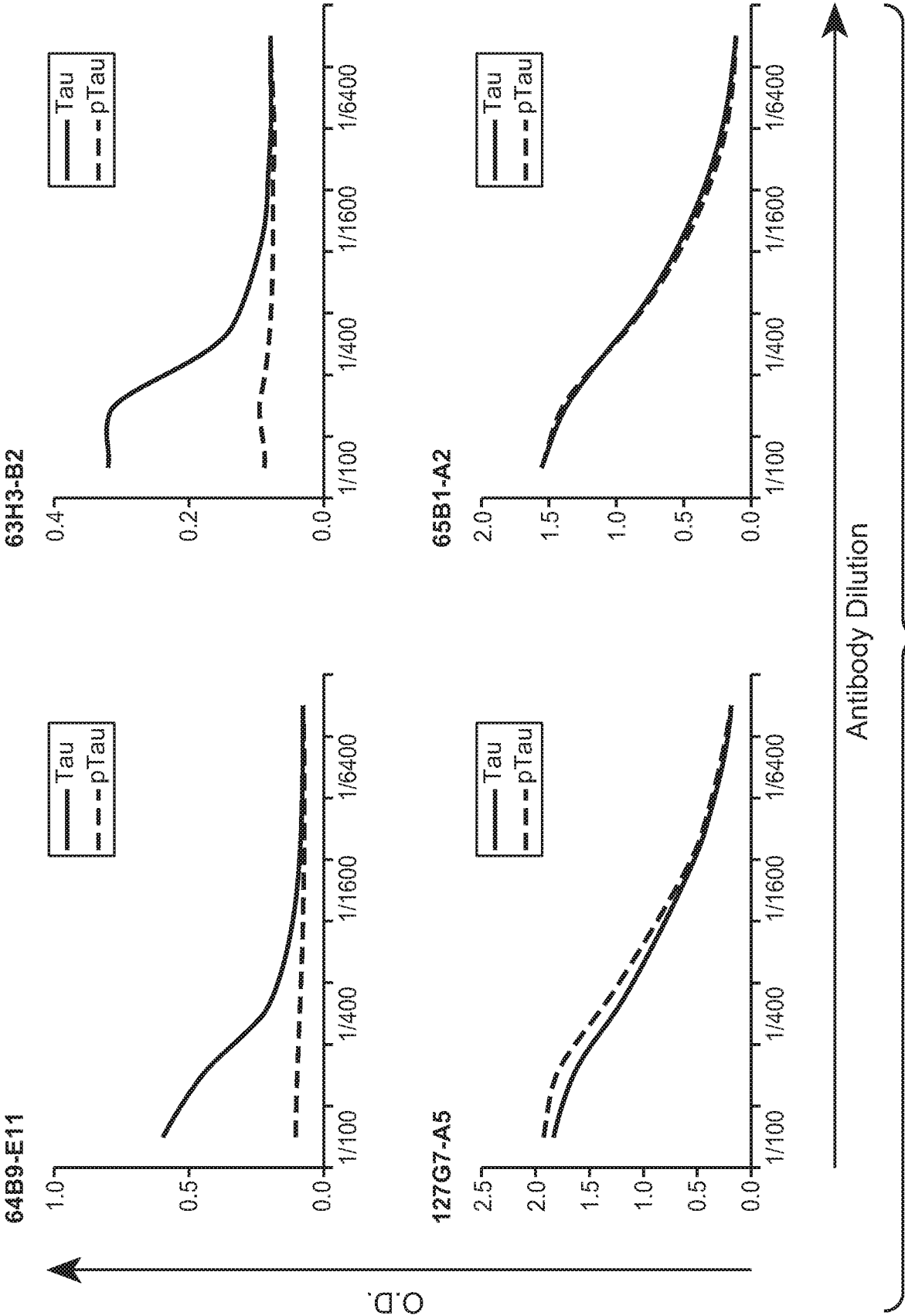
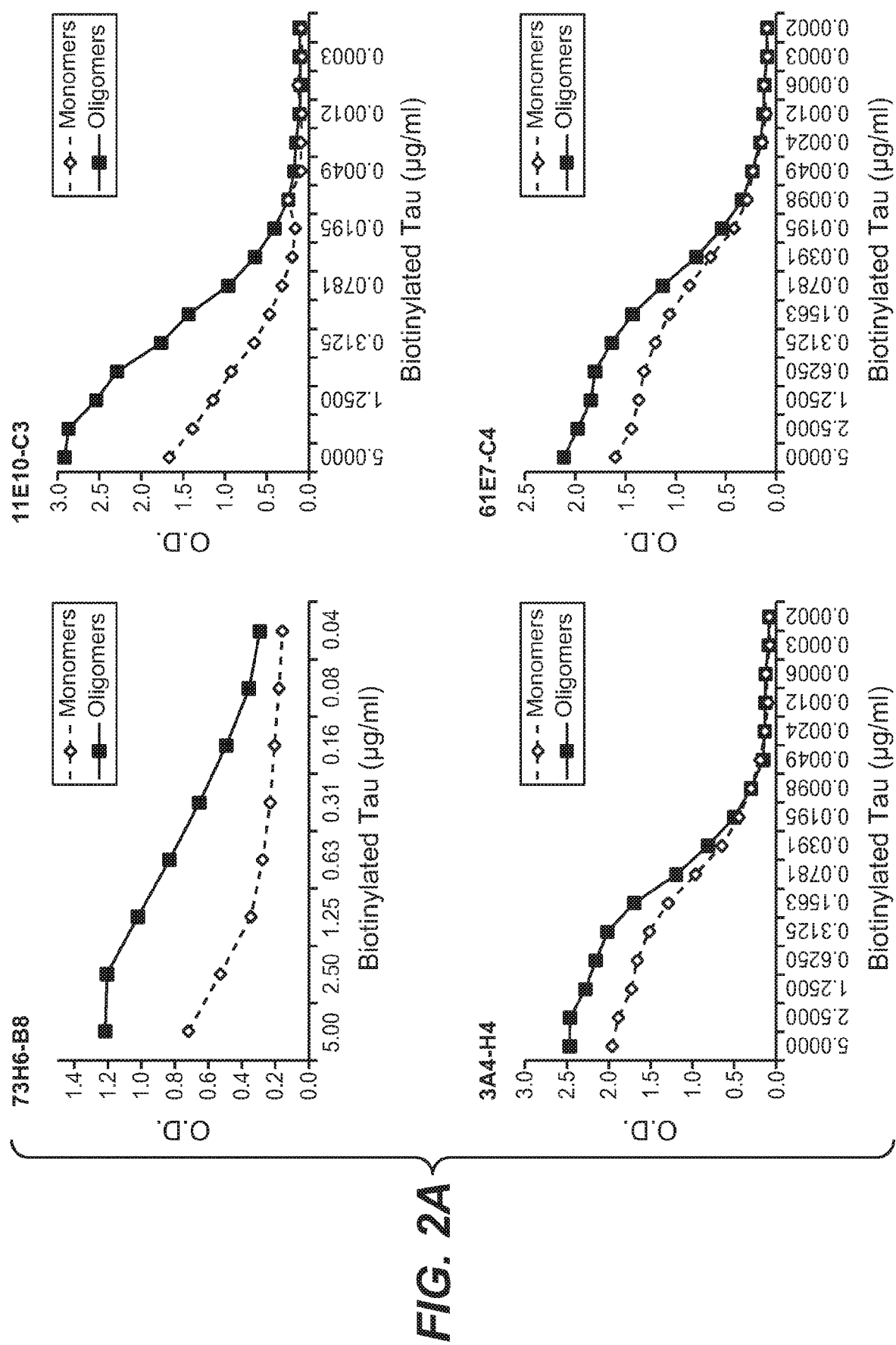


FIG. 1F



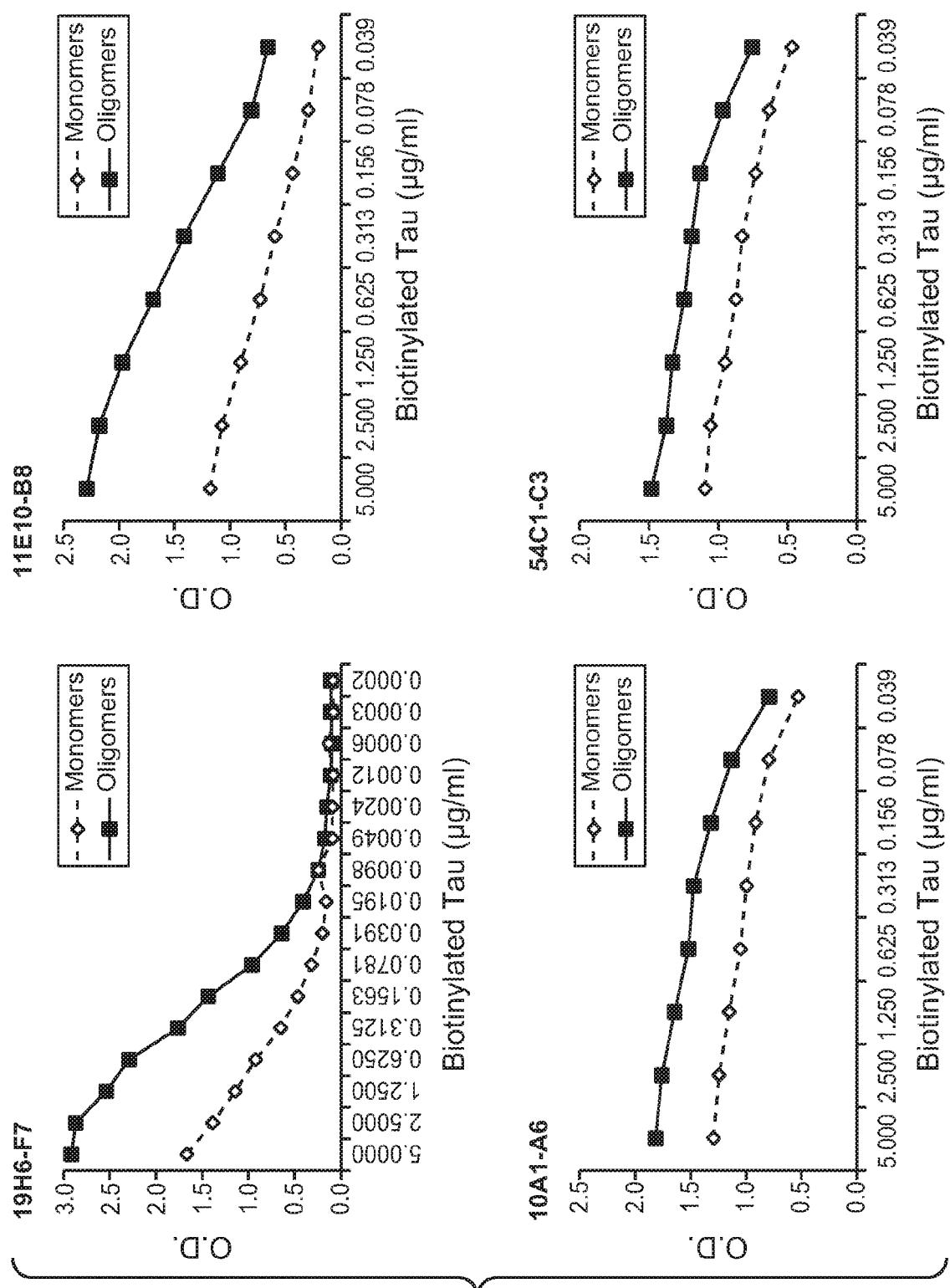
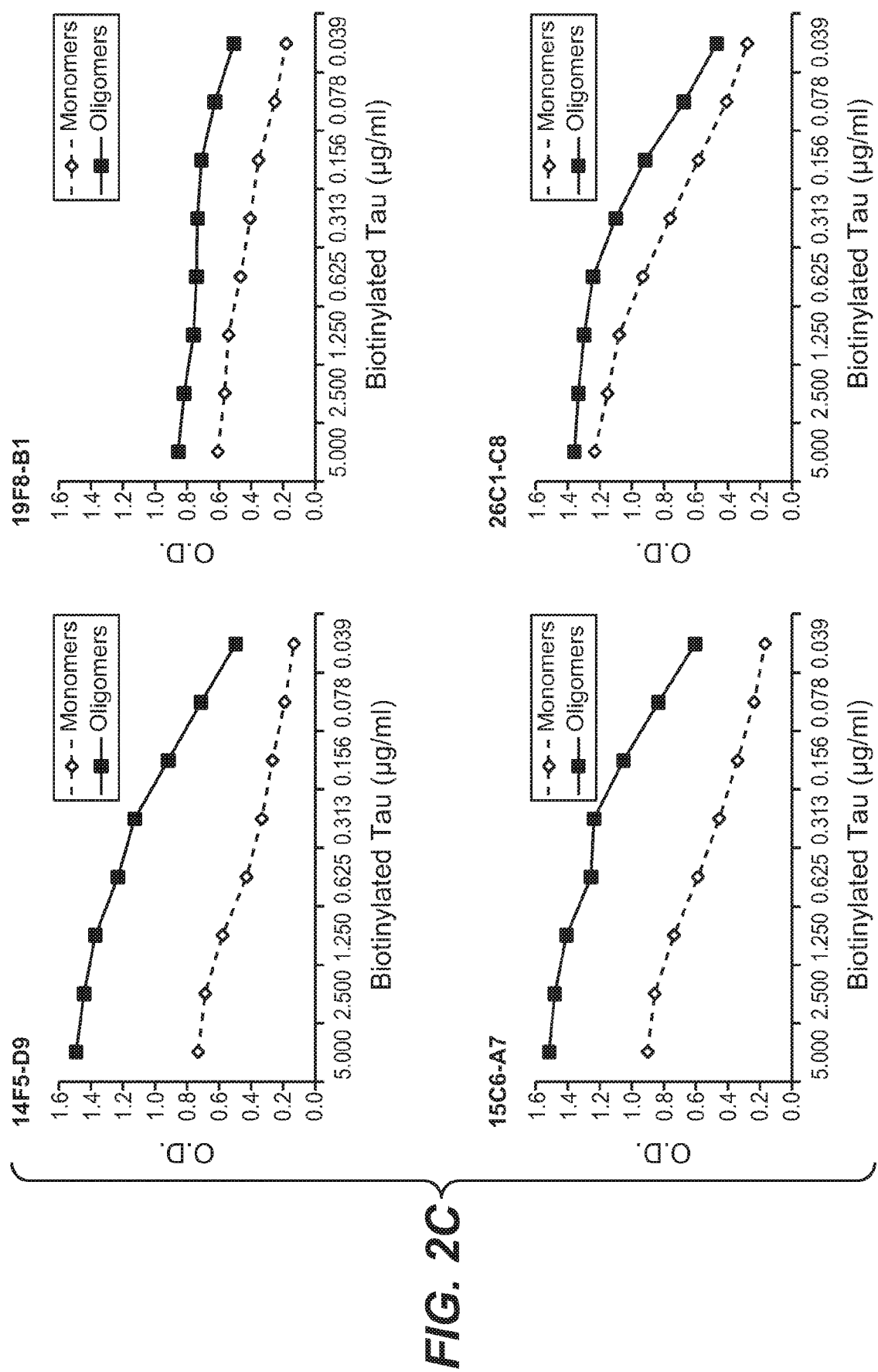


FIG. 2B



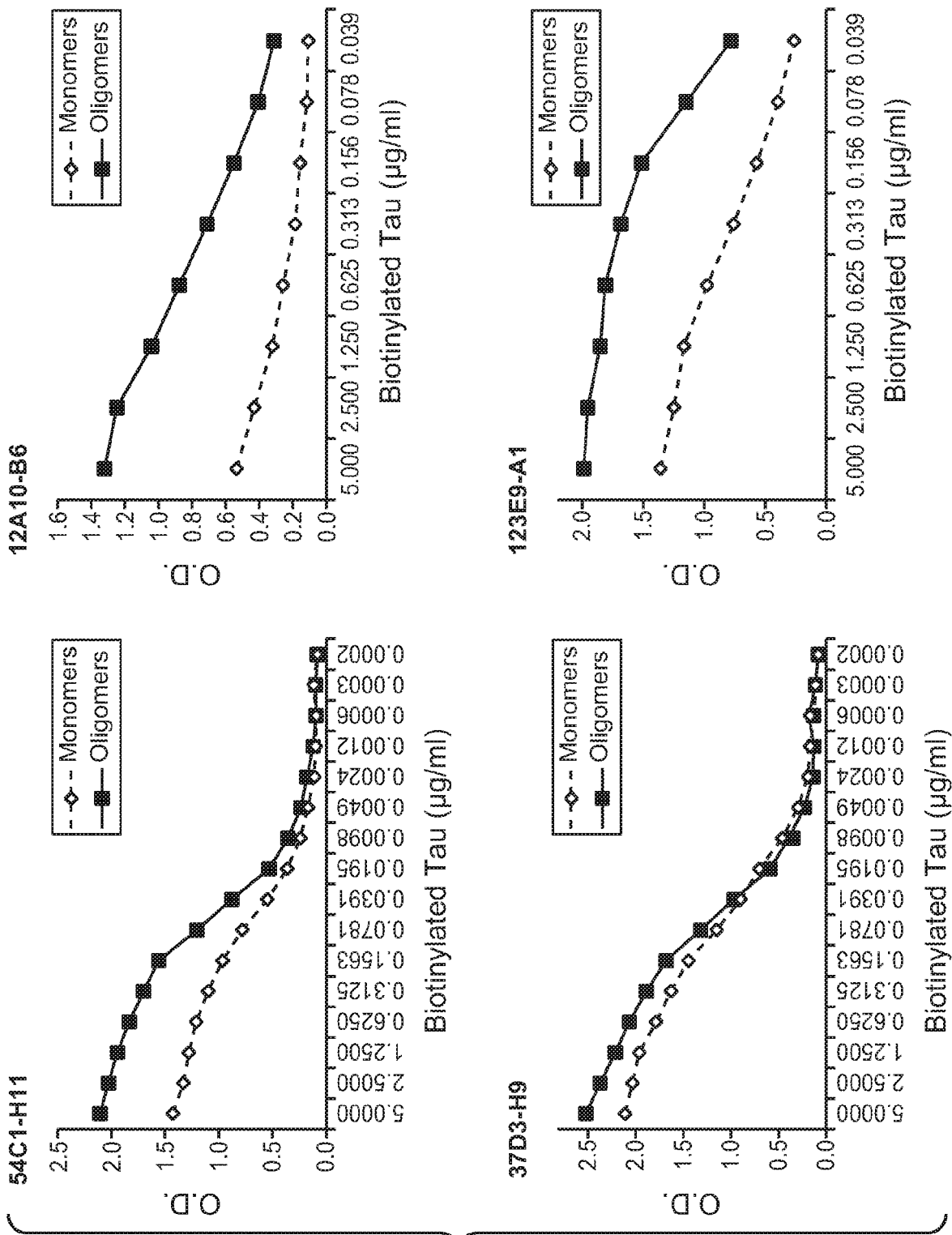


FIG. 2D

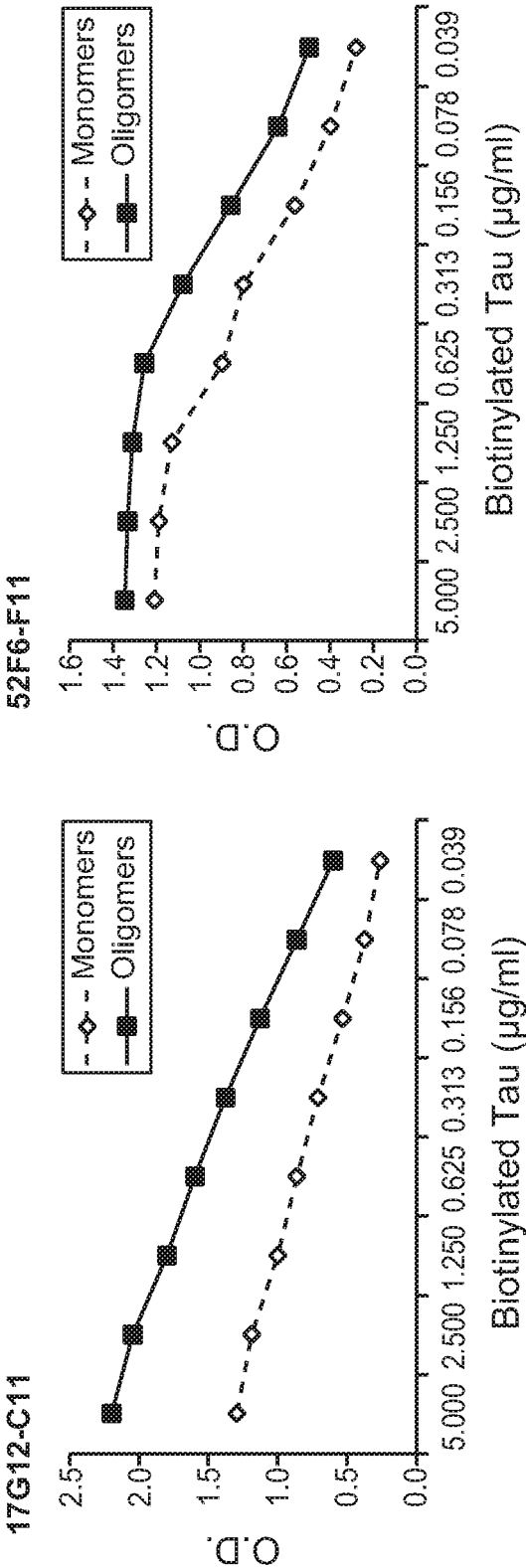


FIG. 2E

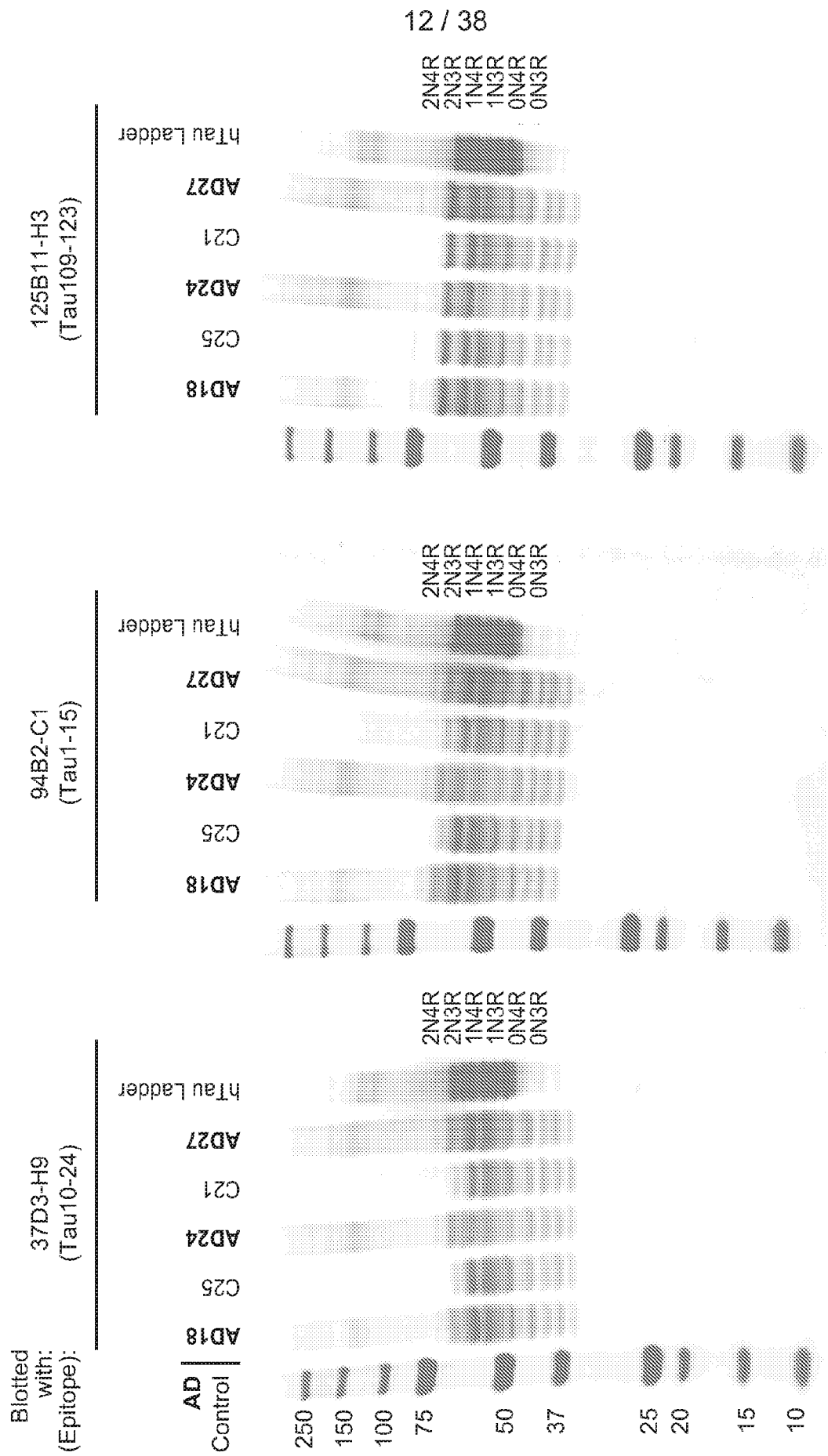
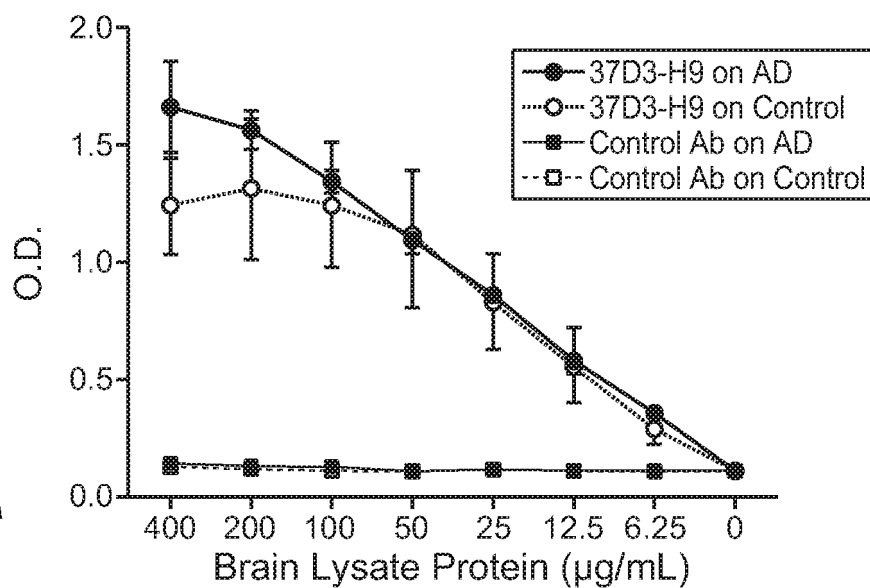
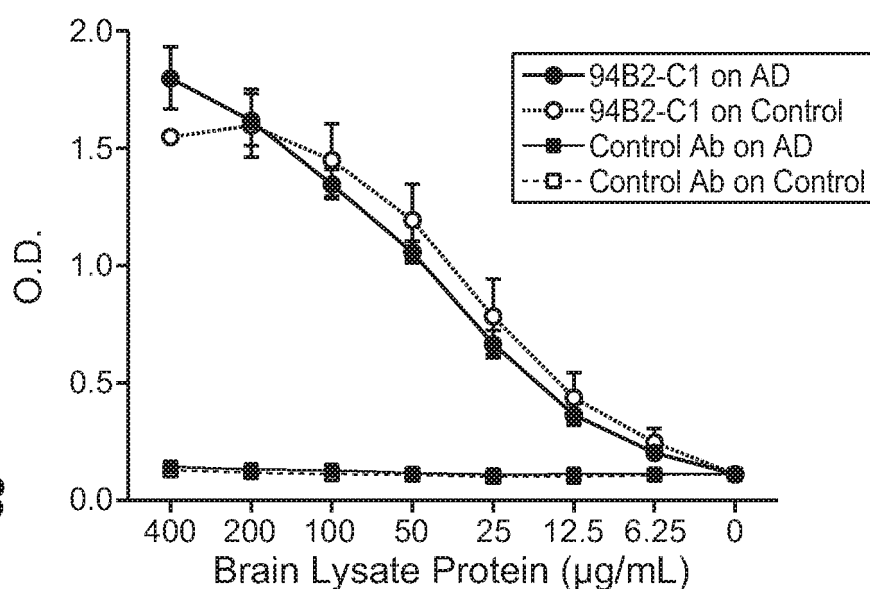
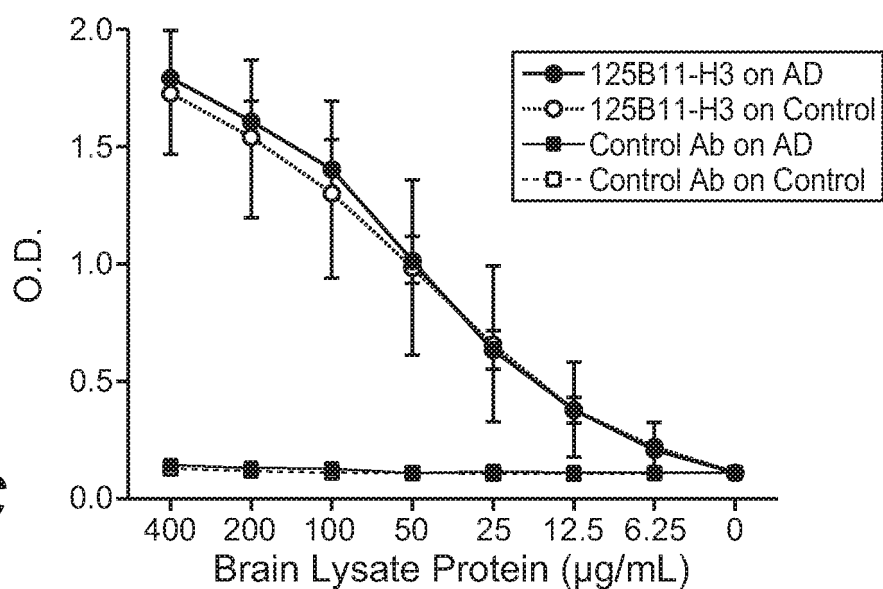
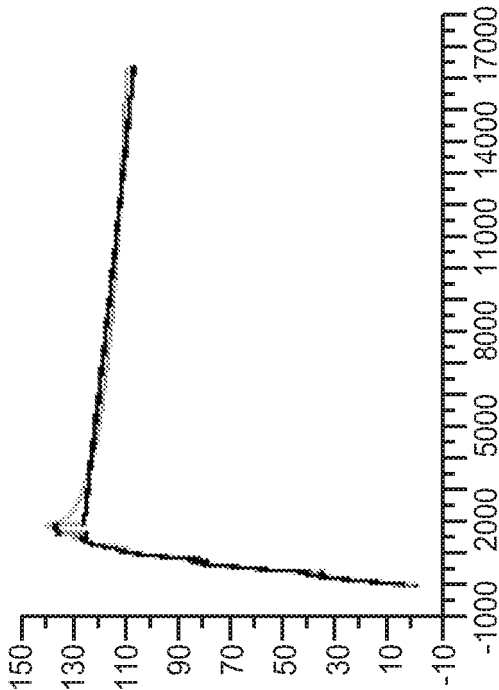


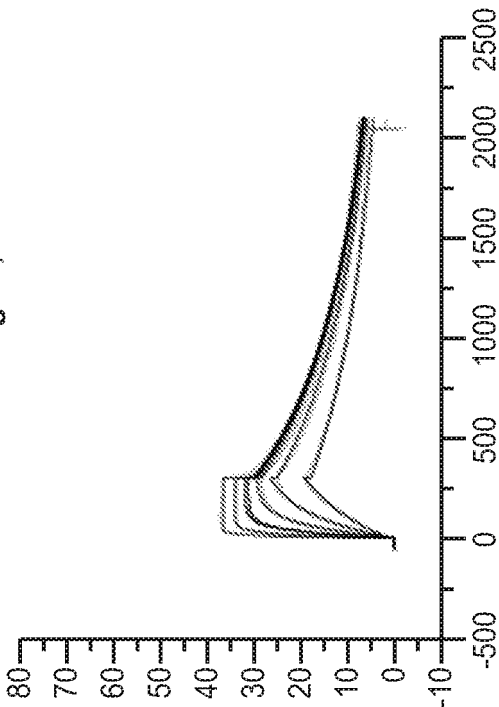
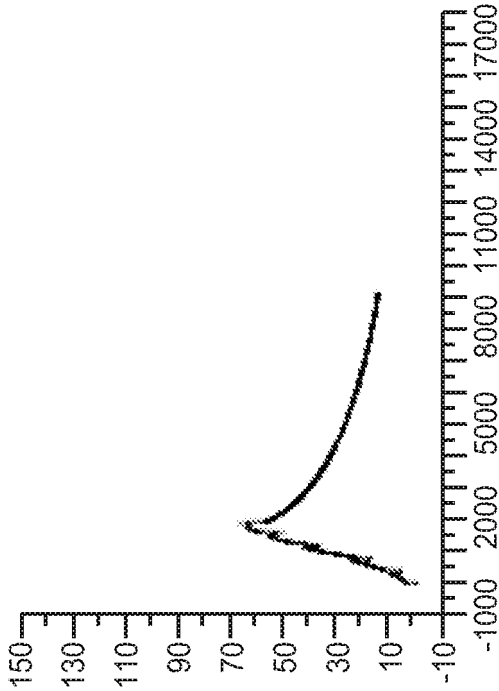
FIG. 3

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FIG. 4A**FIG. 4B****FIG. 4C**



hu37D3-H9.v5 hlgG4, t=2 Weeks



hu37D3-H9.v5 hlgG4, t=0

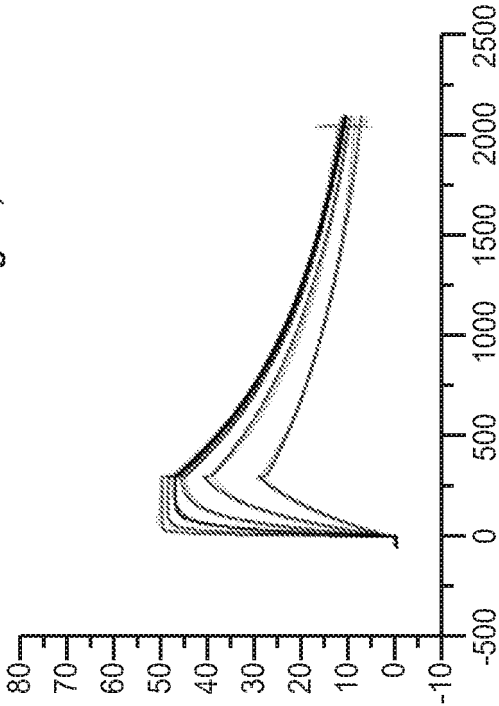


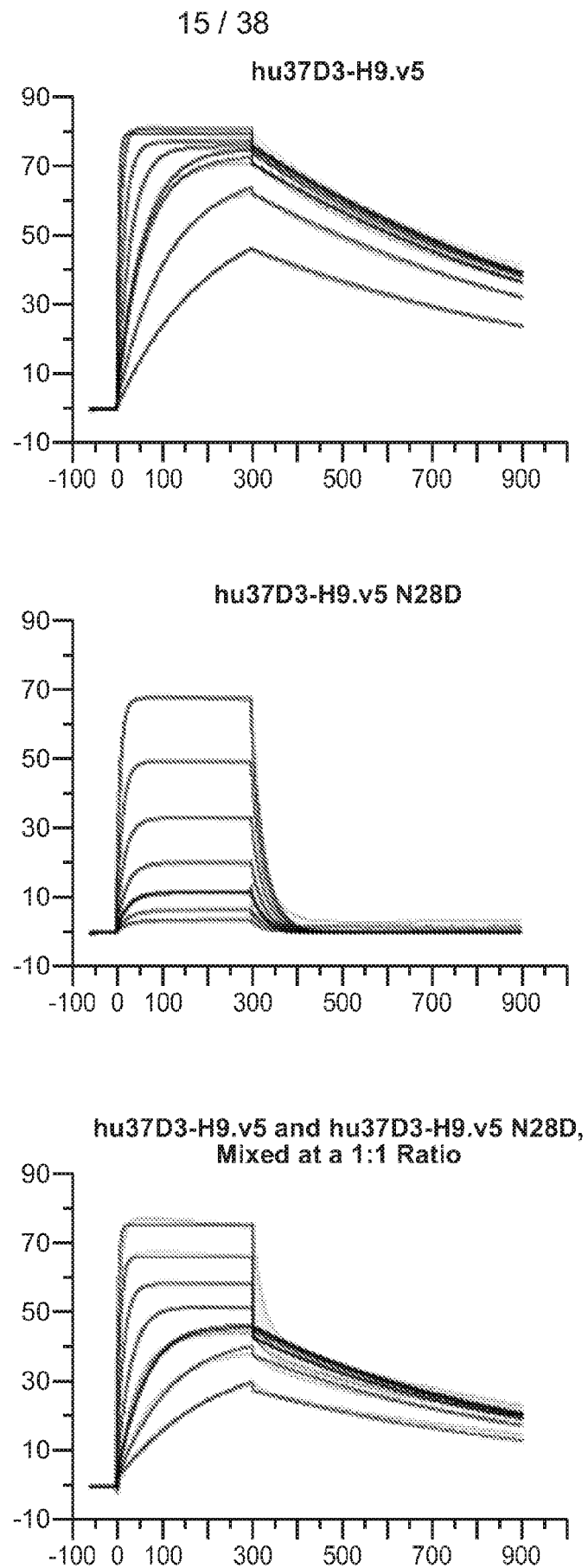
FIG. 7

FIG. 8

FIG. 8A

FIG. 8B

FIG. 8C

FIG. 8D

FIG. 8A

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Antibody	KD (nM)	Stability Index	Chi2 < 10% Rmax and Normalized Rmax (Pre-stress) > 0.1?	VL Residues at Selected Locations (Kabat Numbering)										SEQ ID:		
				1	2	4	27D	27E	28	29	30	31	32		33	93
Unstressed Control (mean, n=9)	1.0	106%	Yes	E	D	L	H	S	N	G	N	T	Y	F	L	350
hu37D3-H9.v5	0.9	73%	Yes	E	D	L	H	S	N	G	N	T	Y	F	L	351
hu37D3-H9.v5.1	4.0	72%	Yes	E	D	L	H	S	N	A	N	T	Y	F	L	352
hu37D3-H9.v5.2	10.9	97%	Yes	E	D	L	H	S	S	G	N	T	Y	F	L	353
hu37D3-H9.v5.3	73.2	70%	Yes	E	D	L	H	S	D	G	N	T	Y	F	L	354
hu37D3-H9.v5.4	36.1	78%	-	E	D	L	H	S	S	Q	N	T	Y	F	L	355
hu37D3-H9.v5.5	64.5	75%	-	E	D	L	H	S	E	G	N	T	Y	F	L	356
hu37D3-H9.v5.6	36.6	67%	-	E	D	L	H	S	A	G	N	T	Y	F	L	357
hu37D3-H9.v5.7	13.0	67%	Yes	E	D	L	H	S	N	G	D	T	Y	F	L	358
hu37D3-H9.v5.8	2.2	90%	Yes	E	D	L	H	S	N	G	Q	T	Y	F	L	359
hu37D3-H9.v5.9	5.3	95%	Yes	E	D	L	H	S	N	G	E	T	Y	F	L	360
hu37D3-H9.v5.10	4.7	78%	Yes	E	D	L	H	S	N	G	A	T	Y	F	L	361
hu37D3-H9.v5.11	97.7	71%	Yes	E	D	L	H	S	N	G	S	T	Y	F	L	362
hu37D3.v28	0.9	78%	Yes	D	D	L	H	S	N	G	N	T	Y	F	L	363
hu37D3.v28.A2	32.6	72%	Yes	D	D	L	H	S	N	G	N	T	Y	F	H	364
hu37D3.v28.A4	1.2	96%	Yes	D	D	L	H	S	N	G	N	T	Y	L	L	365
hu37D3.v28.A6	38.3	82%	Yes	D	D	L	H	S	N	G	N	T	Y	L	H	366
hu37D3.v28.A8	1.8	57%	Yes	D	D	M	H	S	N	G	N	T	Y	F	L	367

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[illegible]

FIG. 8B

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Antibody	KD (nM)	Stability Index	Chi2 < 10% Rmax and Normalized Rmax (Pre-stress) > 0.1?	VL Residues at Selected Locations (Kabat Numbering)										SEQ ID:		
				1	2	4	27D	27E	28	29	30	31	32		33	93
Unstressed Control (mean, n=9)	1.0	106%	Yes	E	D	L	H	S	N	G	N	T	Y	F	L	389
hu37D3.v28.E1	20.1	46%	Yes	D	D	L	N	S	N	G	N	T	Y	F	L	390
hu37D3.v28.E2	22.5	28%	Yes	D	D	L	Q	S	N	G	N	T	Y	F	L	391
hu37D3.v28.E3	1.1	364%	-	D	D	L	D	S	D	G	N	T	Y	F	L	392
hu37D3.v28.F1	2.1	81%	Yes	D	D	L	H	S	N	T	N	T	Y	F	L	393
hu37D3.v28.F2	1.9	51%	Yes	D	D	L	H	T	N	G	N	T	Y	F	L	394
hu37D3.v28.F3	9.5	70%	Yes	D	D	L	H	T	N	A	N	T	Y	F	L	395
hu37D3.v28.51	35.6	74%	-	E	D	L	H	S	H	G	N	T	Y	F	L	396
hu37D3.v28.52	17.6	80%	Yes	E	D	L	H	S	K	G	N	T	Y	F	L	397
hu37D3.v28.53	22.9	76%	Yes	E	D	L	H	S	R	G	N	T	Y	F	L	398
hu37D3.v28.54	24.8	82%	Yes	E	D	L	H	S	L	G	N	T	Y	F	L	399
hu37D3.v28.55	2.6	82%	Yes	D	D	L	H	S	N	Q	N	T	Y	F	L	400
hu37D3.v28.56	5.4	76%	Yes	D	D	L	H	S	N	Y	N	T	Y	F	L	401
hu37D3.v28.57	4.4	88%	Yes	D	D	L	H	S	N	F	N	T	Y	F	L	402
hu37D3.v29.1	13.5	70%	Yes	E	D	L	H	S	N	G	D	T	Y	F	L	403
hu37D3.v29.2	2.6	88%	Yes	E	D	L	H	S	N	G	Q	T	Y	F	L	404
hu37D3.v29.3	5.6	93%	Yes	E	D	L	H	S	N	G	E	T	Y	F	L	405
hu37D3.v29.4	4.9	76%	Yes	E	D	L	H	S	N	G	A	T	Y	F	L	406
hu37D3.v29.5	1.4	64%	Yes	E	D	L	H	S	N	G	H	T	Y	F	L	407
hu37D3.v29.6	1.4	62%	Yes	E	D	L	H	S	N	G	K	T	Y	F	L	408
hu37D3.v29.7	4.6	90%	Yes	E	D	L	H	S	N	G	L	T	Y	F	L	409
hu37D3.v29.8	40.9	77%	-	E	D	L	H	S	N	A	D	T	Y	F	L	410
hu37D3.v29.9	7.3	86%	Yes	E	D	L	H	S	N	A	Q	T	Y	F	L	411
hu37D3.v29.10	17.4	100%	Yes	E	D	L	H	S	N	A	E	T	Y	F	L	412

FIG. 8C

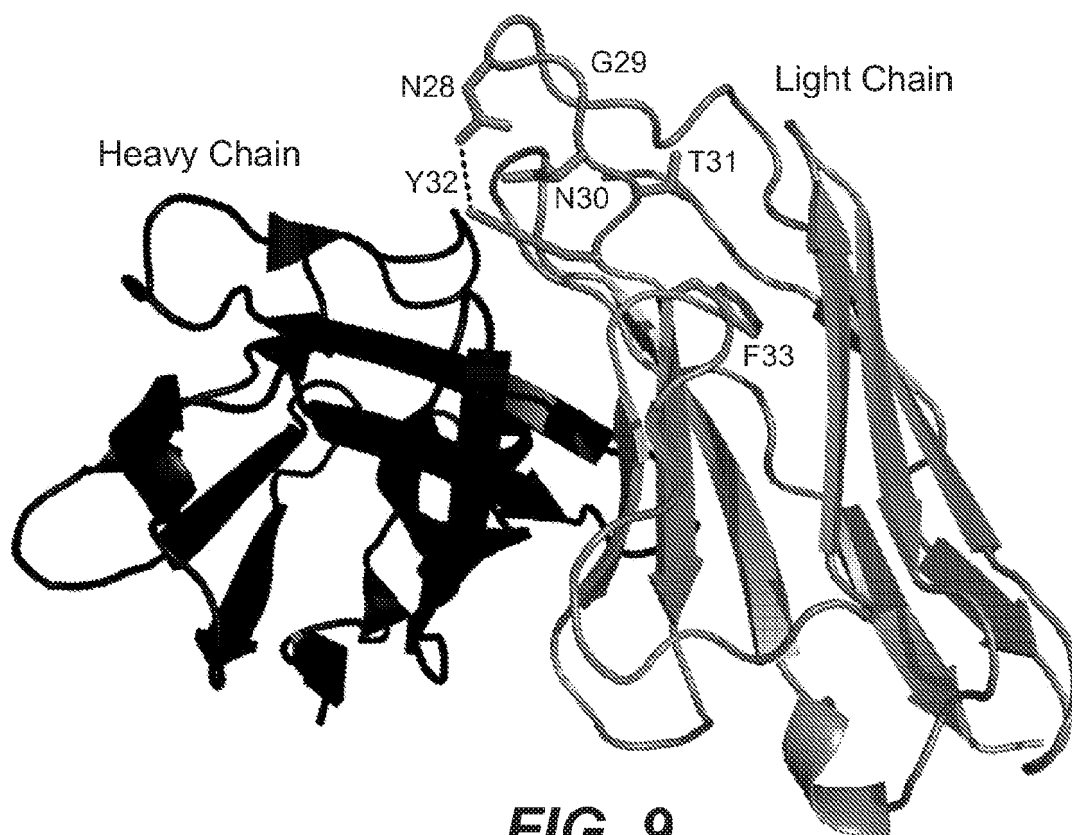
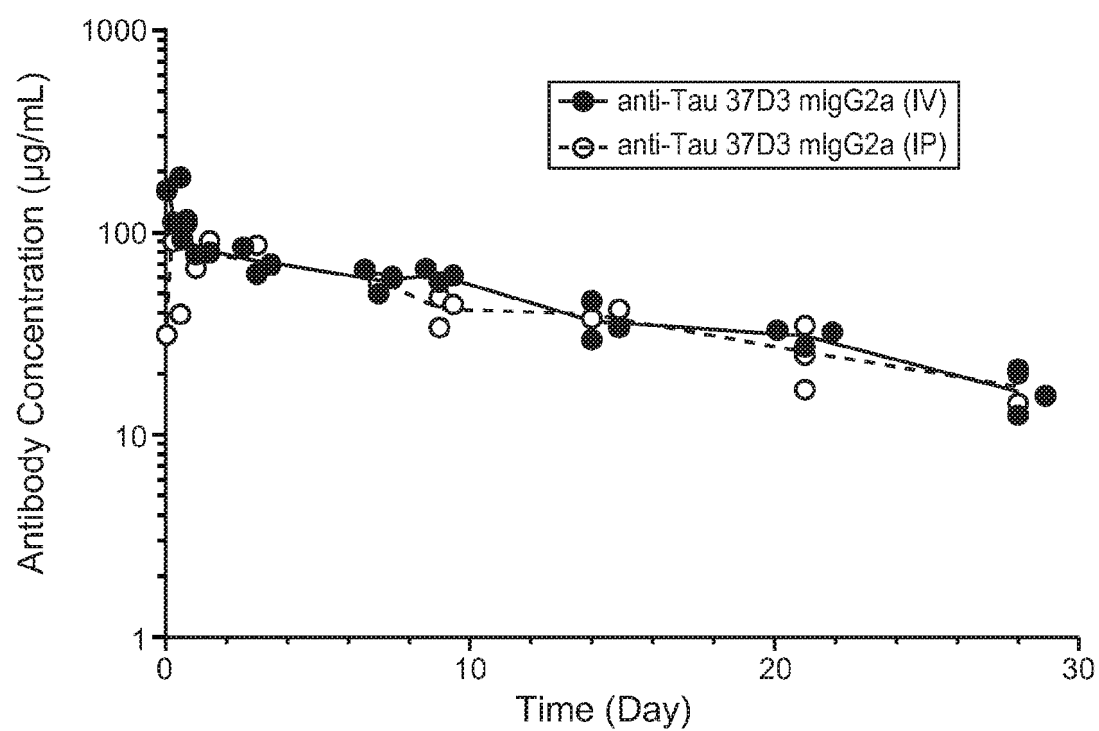
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SEQ ID:

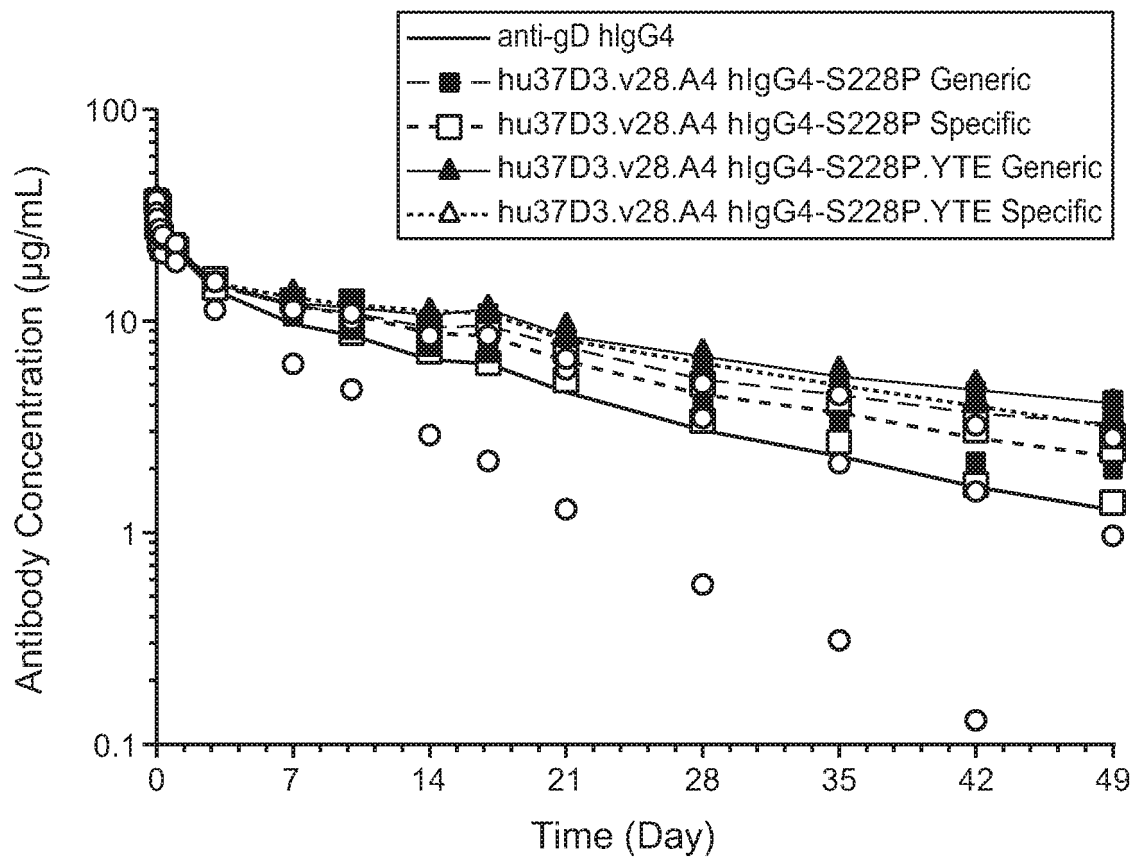
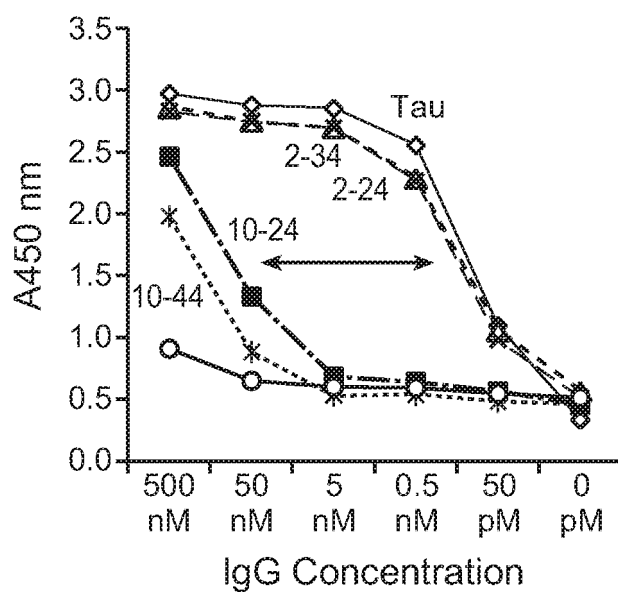
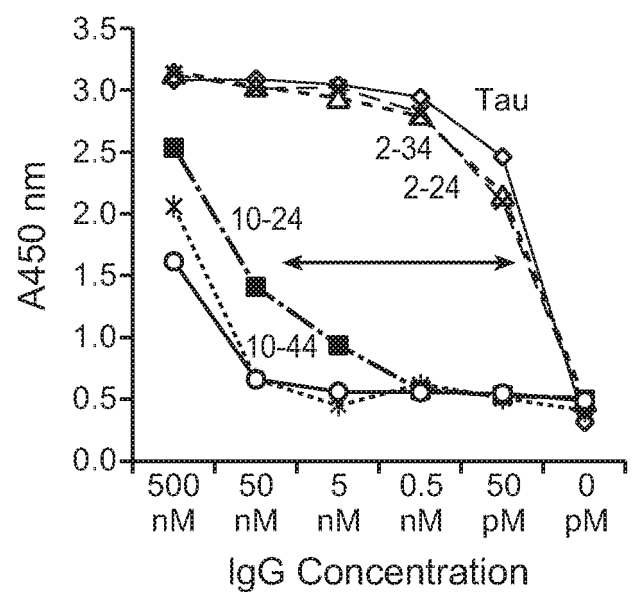
hu37D3.v29.11	27.9	67%	Yes	E	D	L	H	S	N	A	A	T	Y	F	L	413
hu37D3.v29.12	7.0	50%	Yes	E	D	L	H	S	N	A	H	T	Y	F	L	414
hu37D3.v29.13	6.7	79%	Yes	E	D	L	H	S	N	A	K	T	Y	F	L	415
hu37D3.v29.14	22.0	92%	Yes	E	D	L	H	S	N	A	L	T	Y	F	L	416
hu37D3-H9.v30.1	23.5	87%	Yes	D	D	L	H	S	G	N	N	T	Y	F	L	417
hu37D3-H9.v30.2	4.2	96%	Yes	D	D	L	H	S	T	N	N	T	Y	F	L	418
hu37D3-H9.v30.3	38.1	83%	Yes	D	D	L	H	S	V	N	N	T	Y	F	L	419
hu37D3-H9.v30.4	22.0	87%	Yes	D	D	L	H	S	L	N	N	T	Y	F	L	420
hu37D3-H9.v30.5	29.1	80%	Yes	D	D	L	H	S	I	N	N	T	Y	F	L	421
hu37D3-H9.v30.6	19.1	270%	-	D	D	L	H	S	P	N	N	T	Y	F	L	422
hu37D3-H9.v30.7	34.9	93%	-	D	D	L	H	S	F	N	N	T	Y	F	L	423
hu37D3-H9.v30.8	31.4	105%	-	D	D	L	H	S	Y	N	N	T	Y	F	L	424
hu37D3-H9.v30.9	36.4	63%	-	D	D	L	H	S	H	N	N	T	Y	F	L	425
hu37D3-H9.v30.10	16.1	84%	Yes	D	D	L	H	S	K	N	N	T	Y	F	L	426
hu37D3-H9.v30.11	20.9	86%	Yes	D	D	L	H	S	R	N	N	T	Y	F	L	427
hu37D3-H9.v31.1	41.2	72%	-	D	D	L	H	S	N	A	G	T	Y	F	L	428
hu37D3-H9.v31.2	10.6	90%	Yes	D	D	L	H	S	N	A	V	T	Y	F	L	429
hu37D3-H9.v31.3	9.8	93%	Yes	D	D	L	H	S	N	A	I	T	Y	F	L	430
hu37D3-H9.v31.4	0.8	533%	-	D	D	L	H	S	N	A	P	T	Y	F	L	431
hu37D3-H9.v31.5	15.2	85%	Yes	D	D	L	H	S	N	A	F	T	Y	F	L	432
hu37D3-H9.v31.6	15.5	90%	Yes	D	D	L	H	S	N	A	Y	T	Y	F	L	433
hu37D3-H9.v31.7	6.9	83%	Yes	D	D	L	H	S	N	A	R	T	Y	F	L	434
hu37D3-H9.v31.8	10.9	78%	Yes	D	D	L	H	S	N	A	N	V	Y	F	L	435
hu37D3-H9.v31.9	7.5	81%	Yes	D	D	L	H	S	N	A	N	I	Y	F	L	436
hu37D3-H9.v31.10	5.5	261%	-	D	D	L	H	S	N	A	N	P	Y	F	L	437
hu37D3-H9.v31.11	22.7	126%	-	D	D	L	H	S	N	A	N	F	Y	F	L	438
hu37D3-H9.v31.12	41.6	99%	-	D	D	L	H	S	N	A	N	Y	Y	F	L	439
hu37D3-H9.v31.13	48.1	83%	-	D	D	L	H	S	N	A	N	N	Y	F	L	440
hu37D3-H9.v31.14	35.5	86%	-	D	D	L	H	S	N	A	N	R	Y	F	L	441

FIG. 8D

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**FIG. 9****FIG. 10**

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**FIG. 11****FIG. 12B****FIG. 12C**

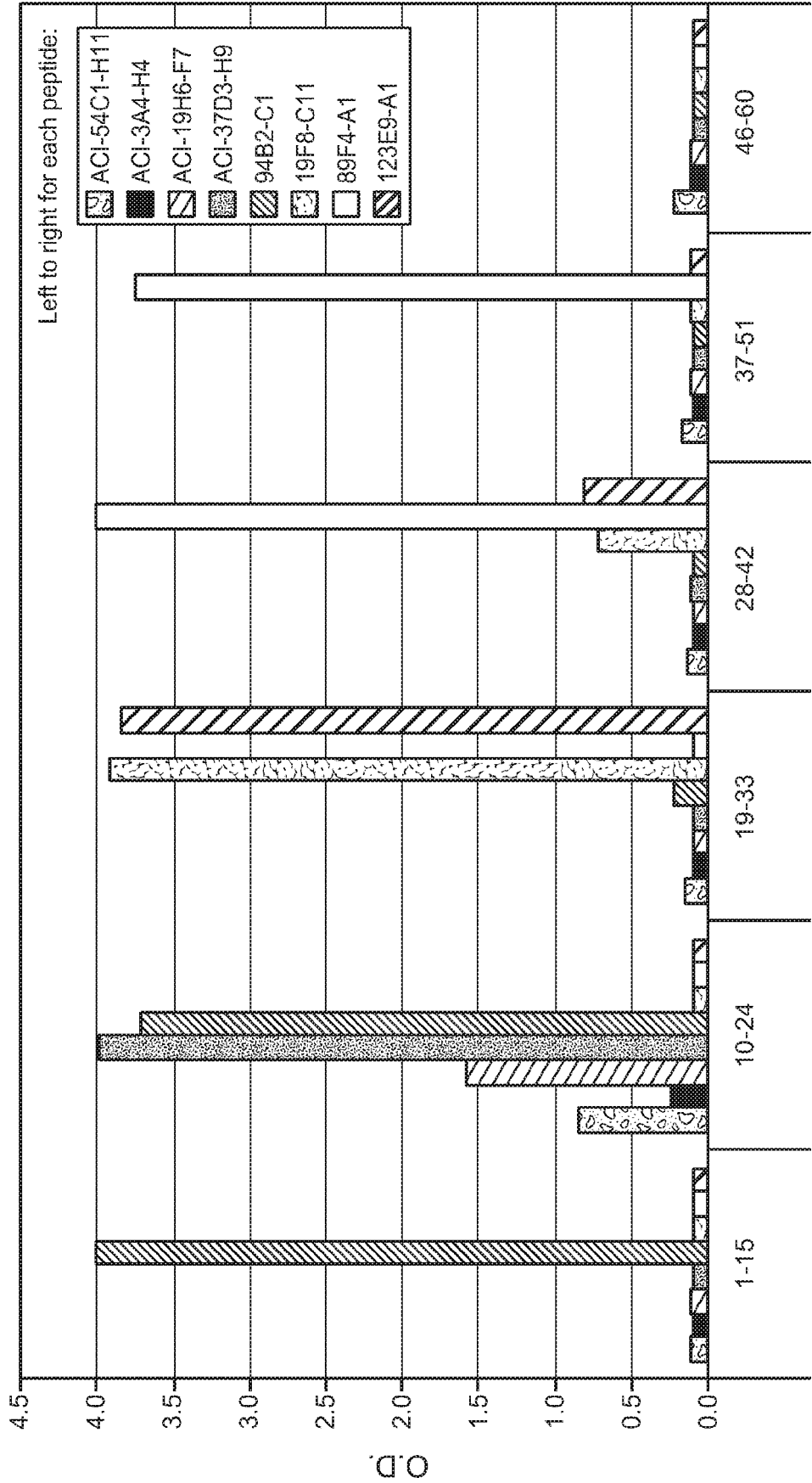
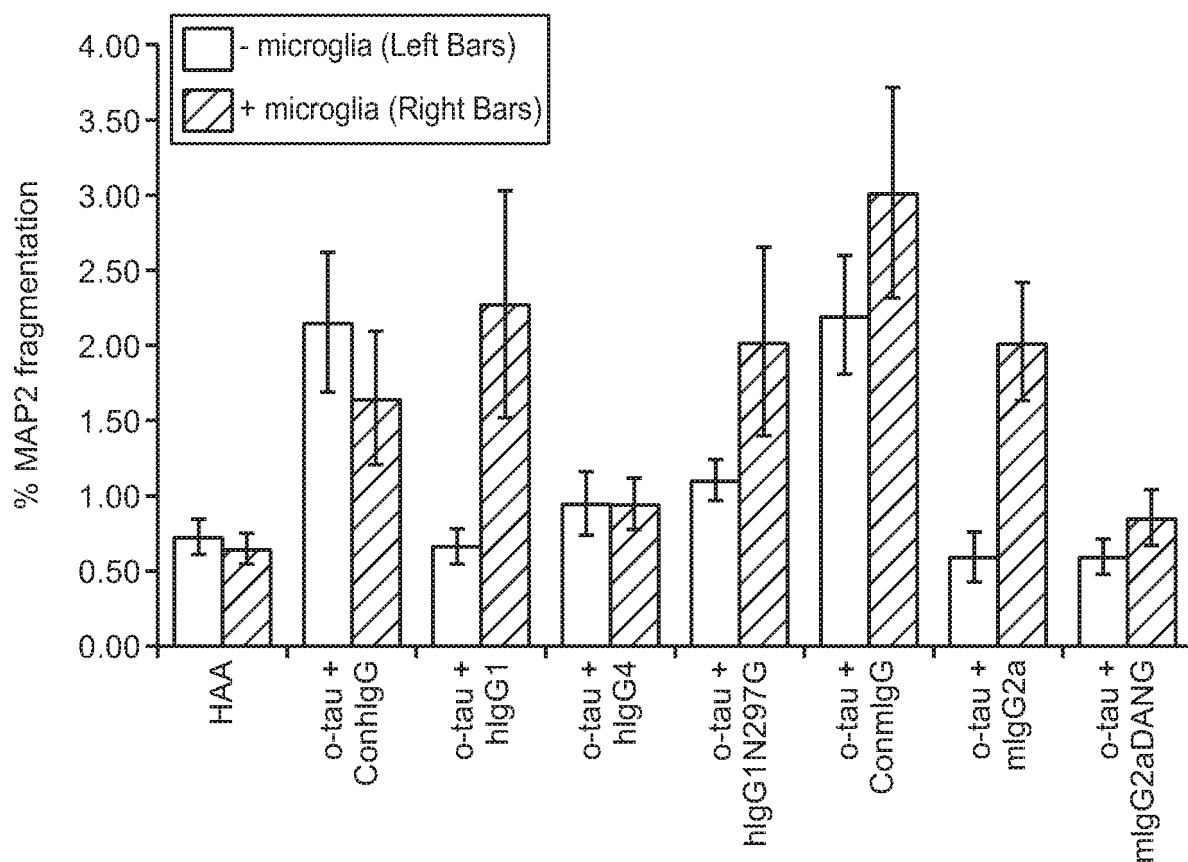
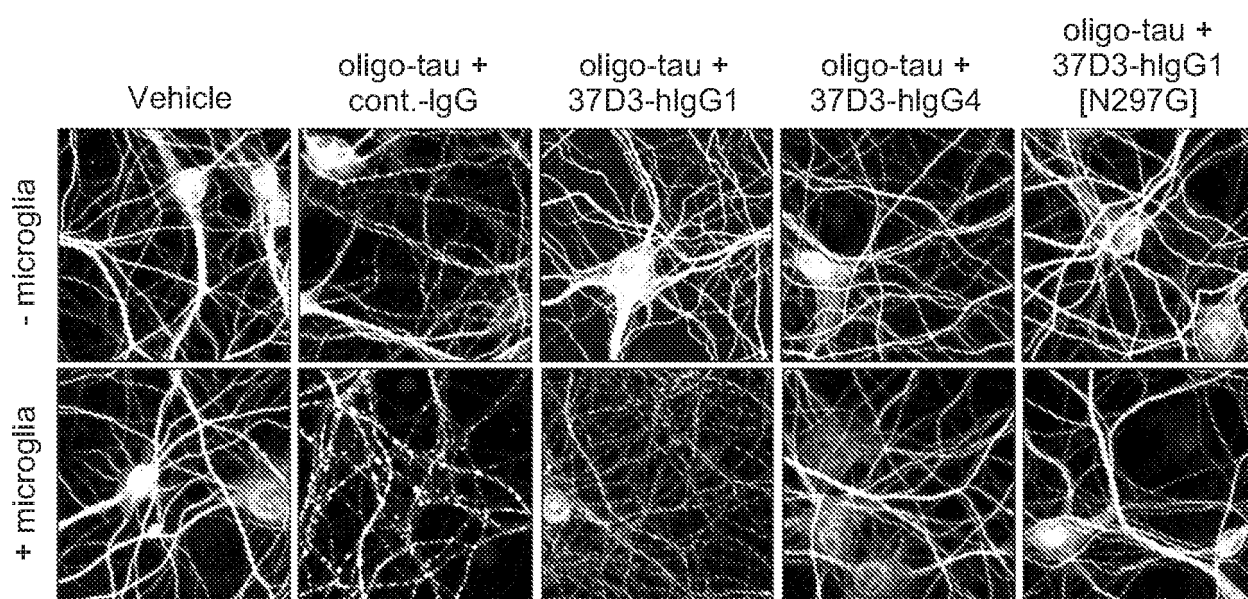
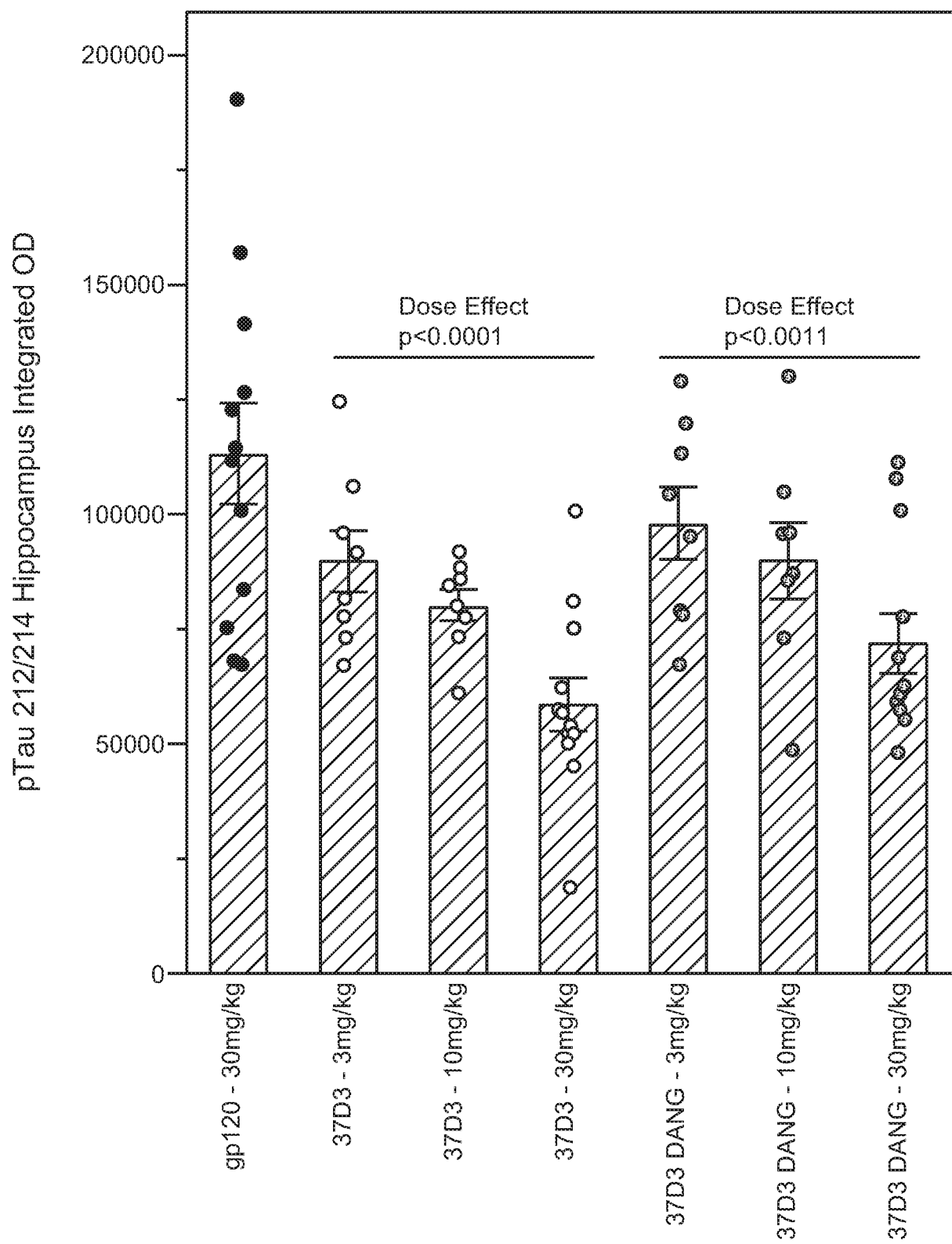


FIG. 12A

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**FIG. 13A****FIG. 13B**

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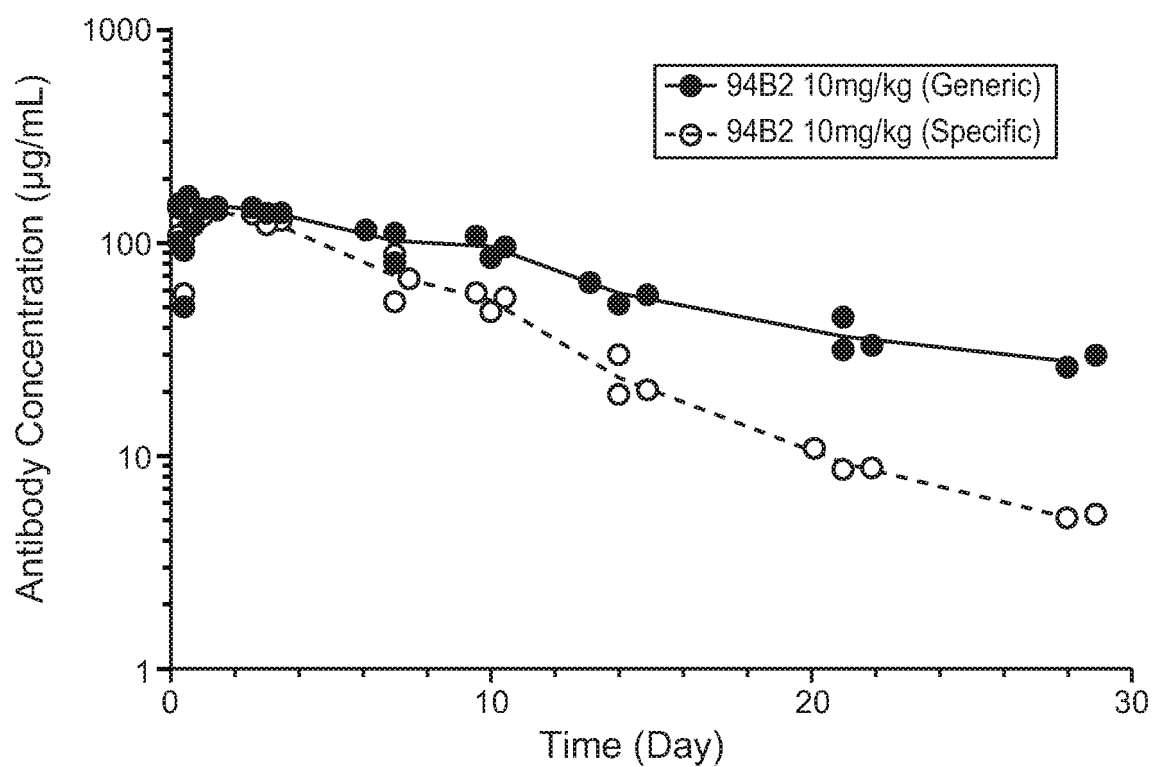
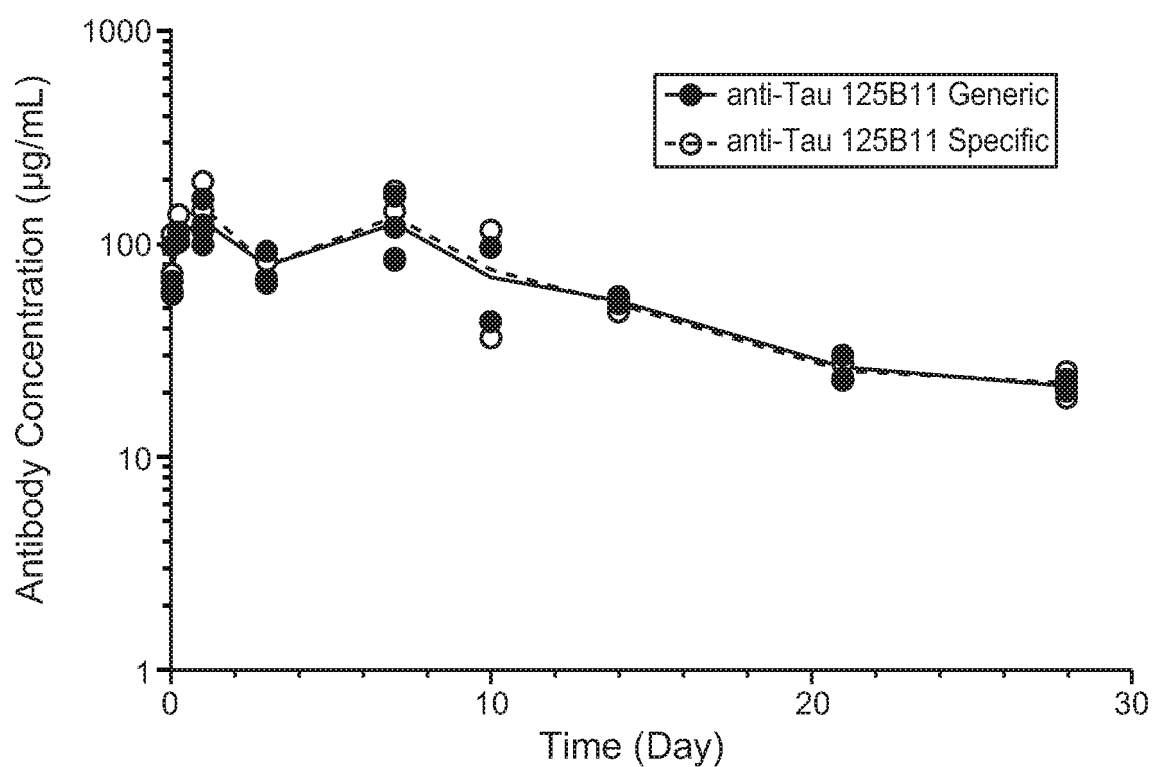
**FIG. 14**

Native Tau Position 2		37D3 Epitope (2-24)	
		↓	
PRO364486.HU	1	MHHHHHHG	ENLYFQGS
PRO378546.CYNO	1	MHHHHHHG	ENLYFQGS
PRO364486.HU	51	EGD	TDAGLKE
PRO378546.CYNO	51	EGD	TDAGLKE
PRO364486.HU	101	GKQAA	AQPHTE
PRO378546.CYNO	101	GEQAA	AQPHME
PRO364486.HU	151	GSD	KKAKG
PRO378546.CYNO	151	GSD	KKAKG
PRO364486.HU	201	GEPPK	SGDRSG
PRO378546.CYNO	201	GEPPK	SGDRSG
PRO364486.HU	251	PSSAK	SRLQT
PRO378546.CYNO	251	PSSAK	SRLQT
PRO364486.HU	301	NVQSK	CGSKDN
PRO378546.CYNO	301	NVQSK	CGSKDN
PRO364486.HU	351	QVEVK	SEKLD
PRO378546.CYNO	351	QVEVK	SEKLD
PRO364486.HU	401	TDHGAE	IVYKSP
PRO378546.CYNO	401	TDHGAE	IVYKSP
PRO364486.HU	451	LAKQGL	456
PRO378546.CYNO	451	LAKQGL	456

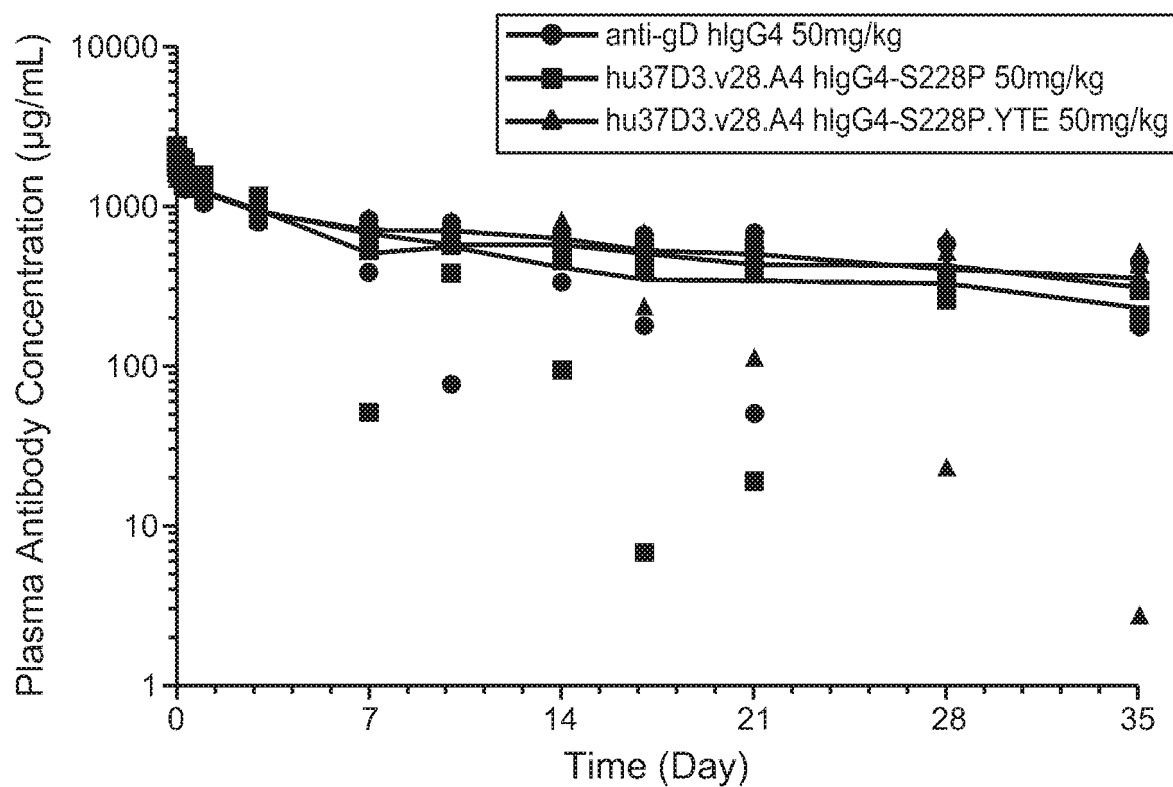
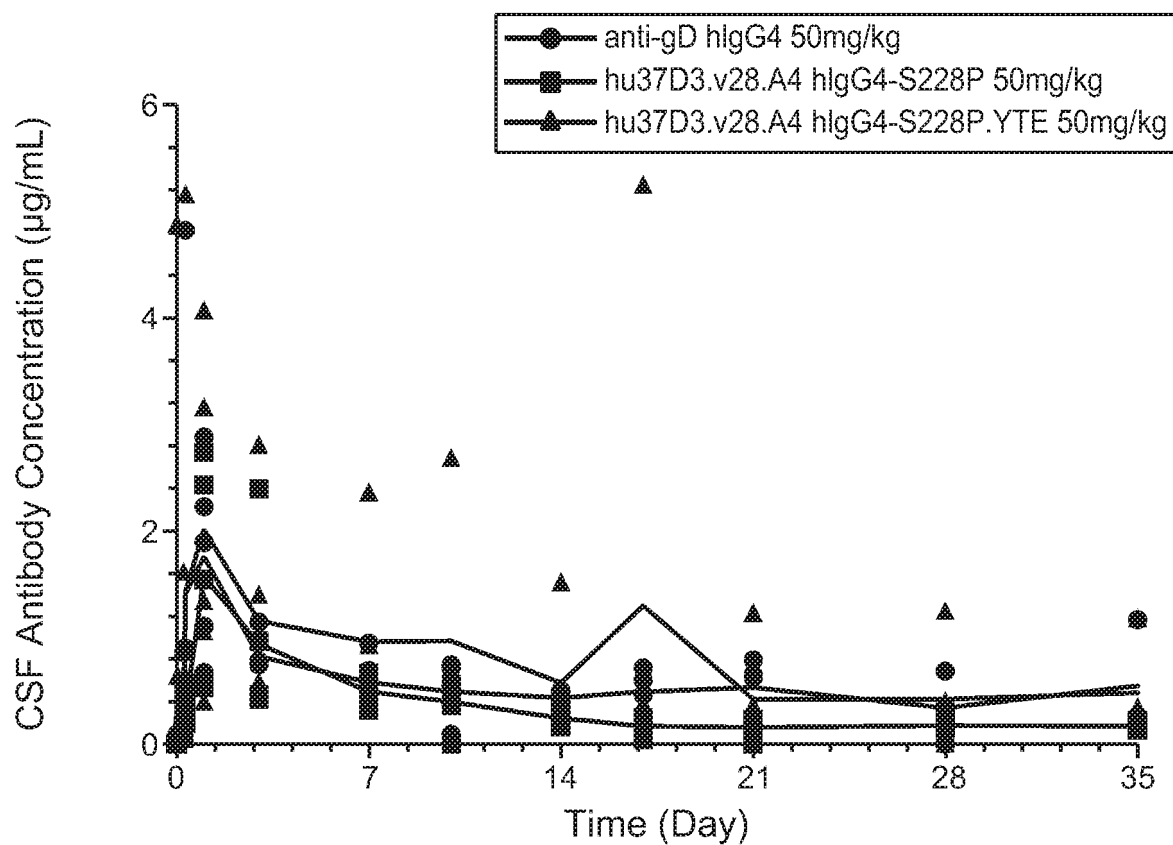
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FIG. 15

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**FIG. 16****FIG. 17**

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**FIG. 19A****FIG. 19B**

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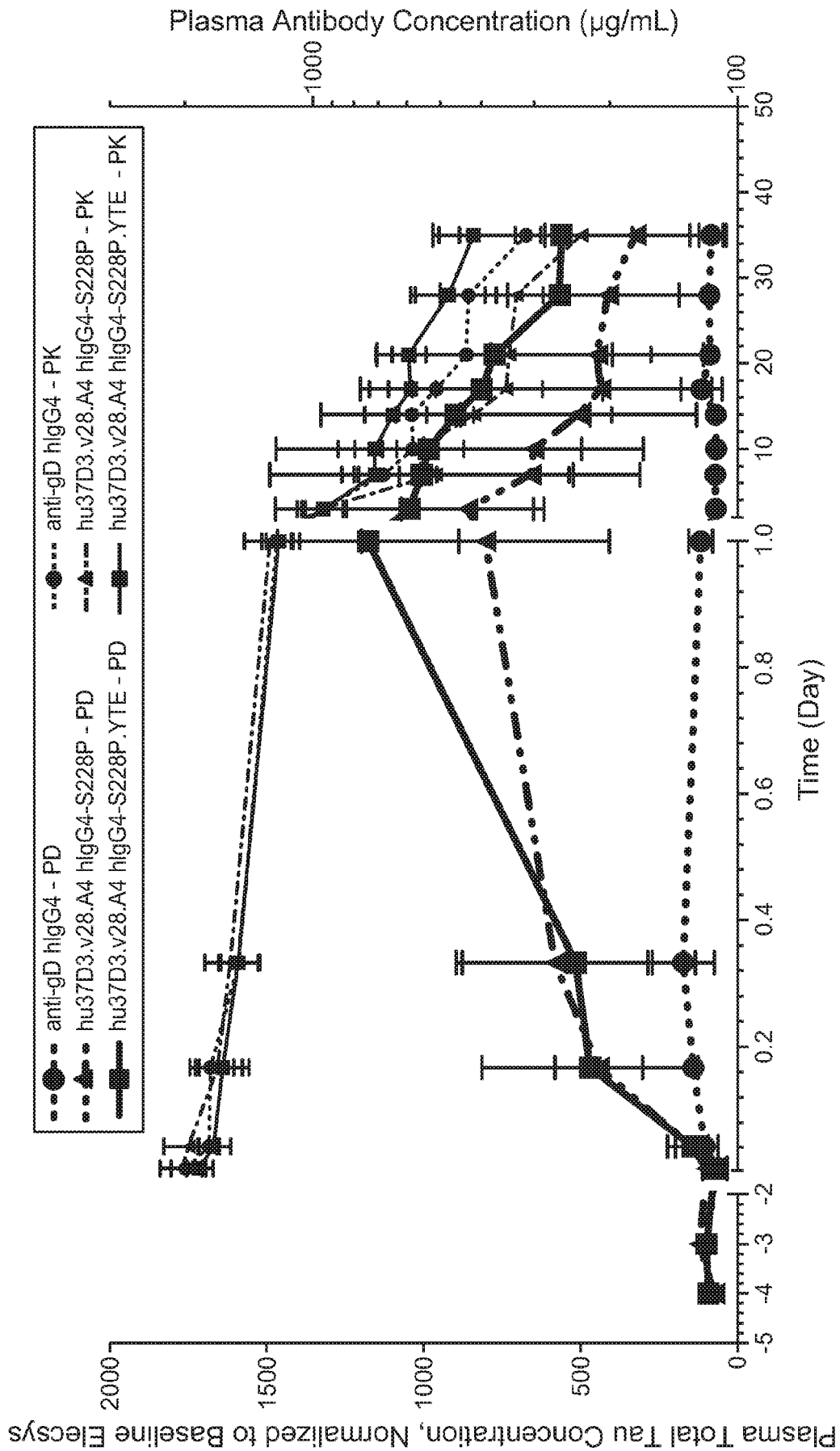
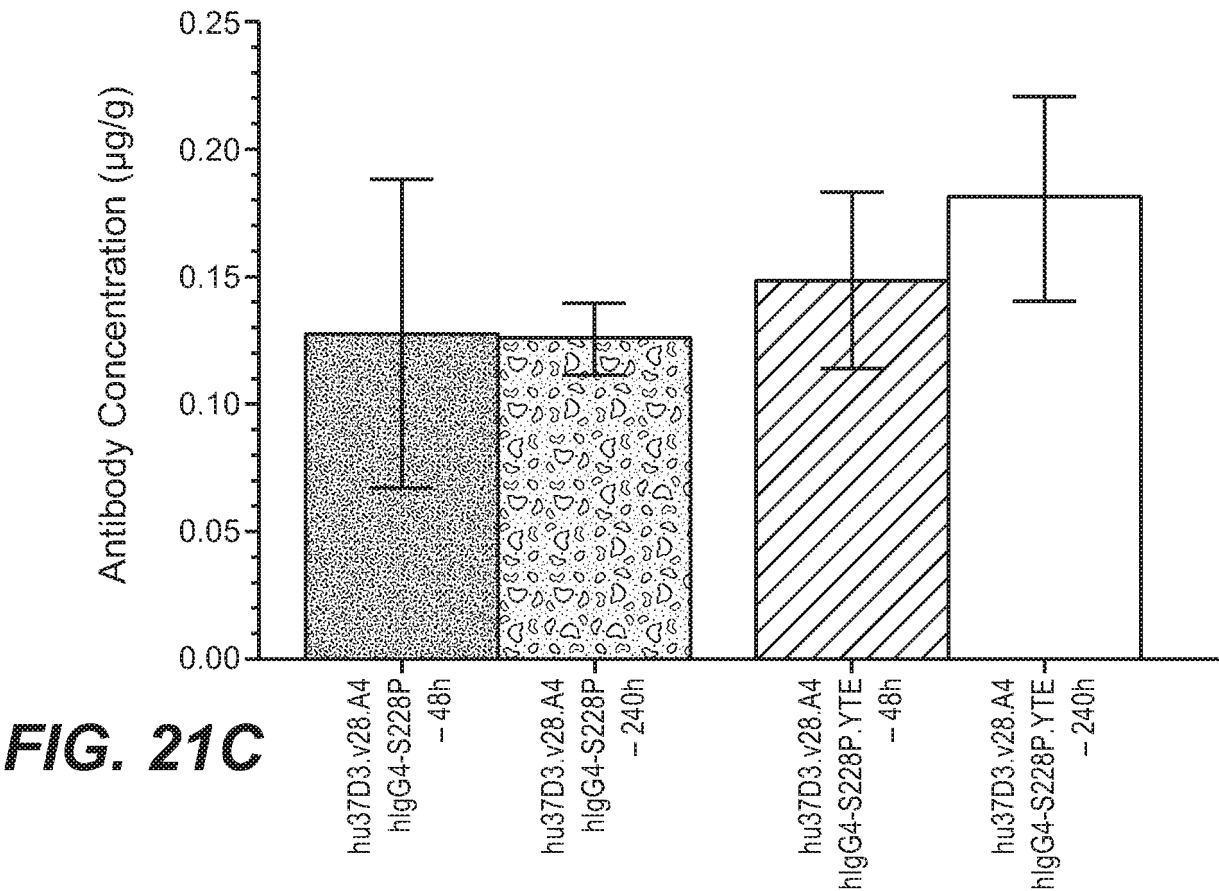
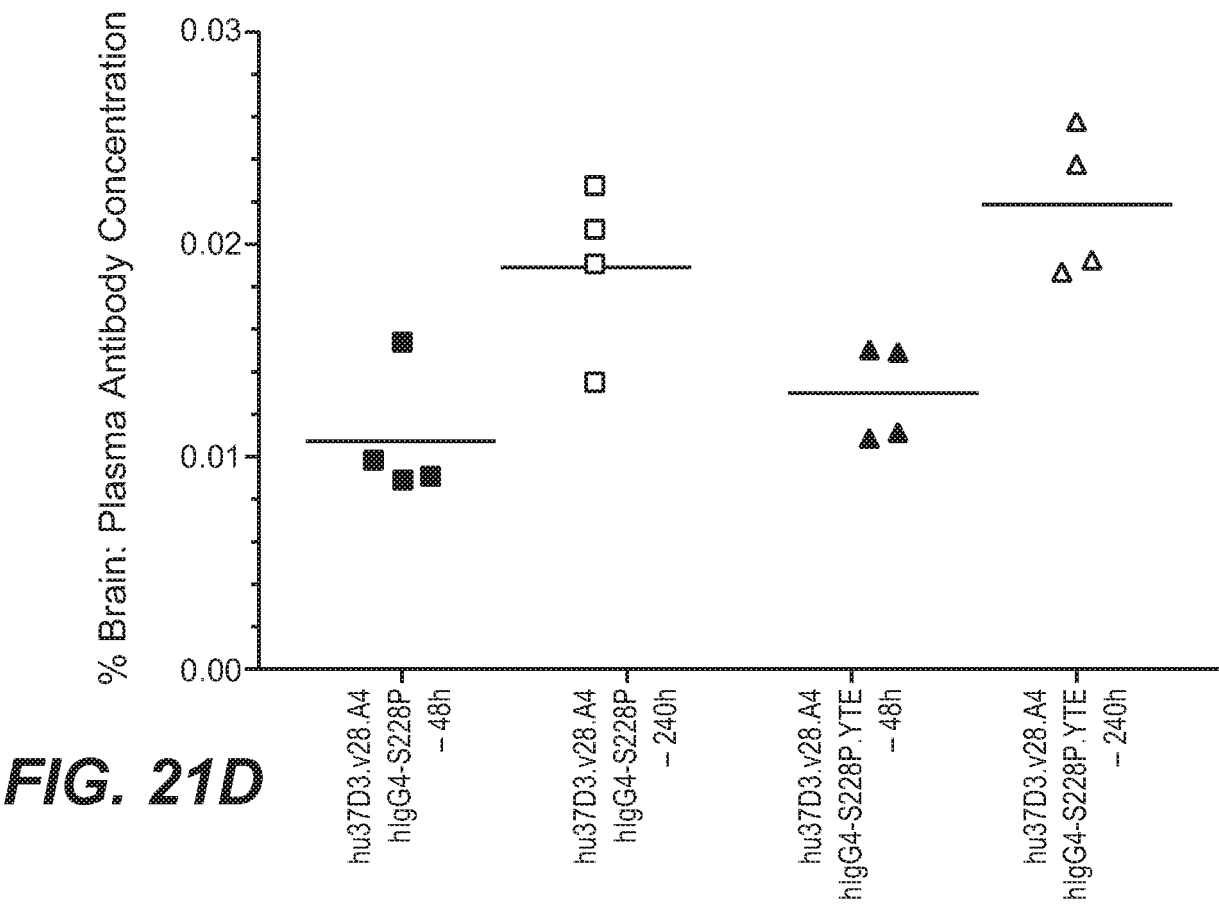
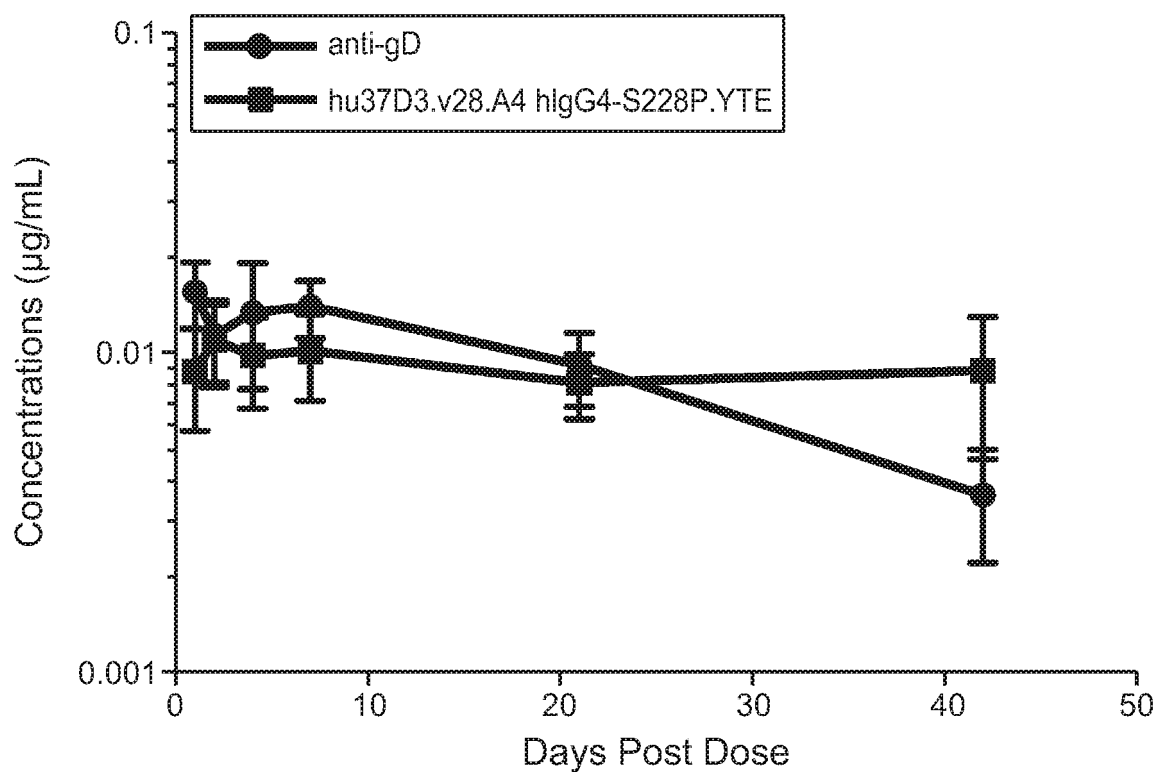
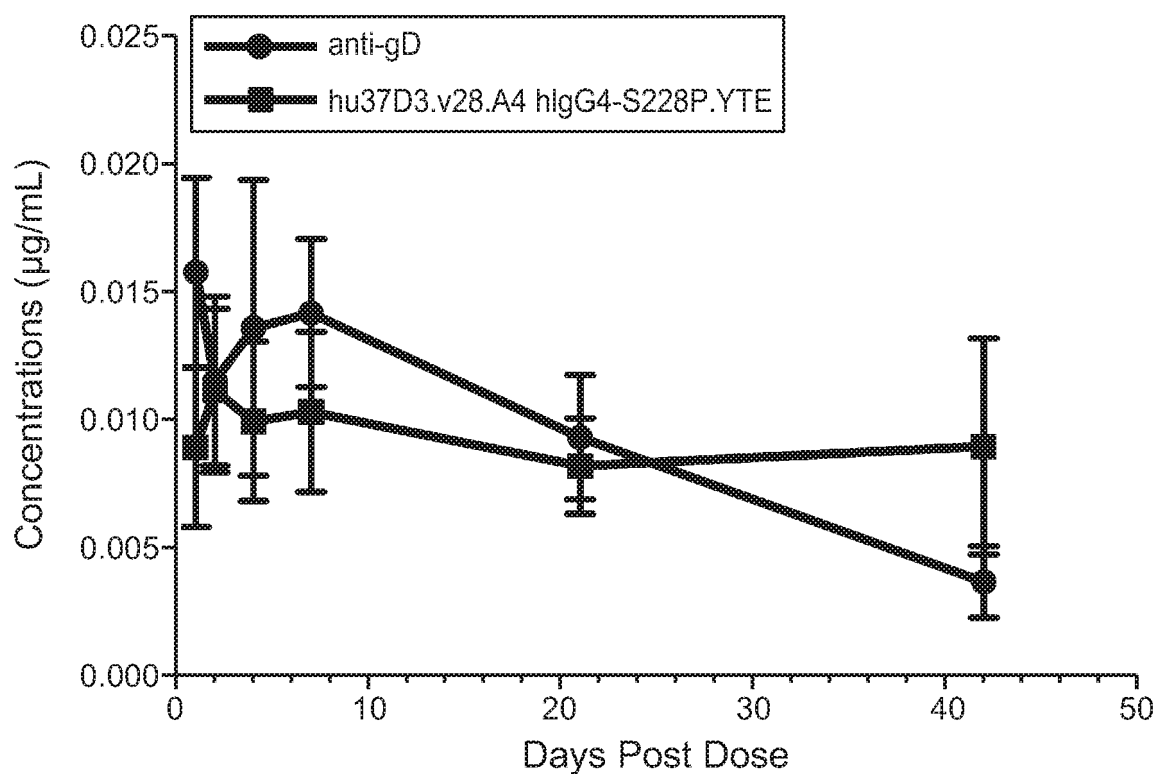


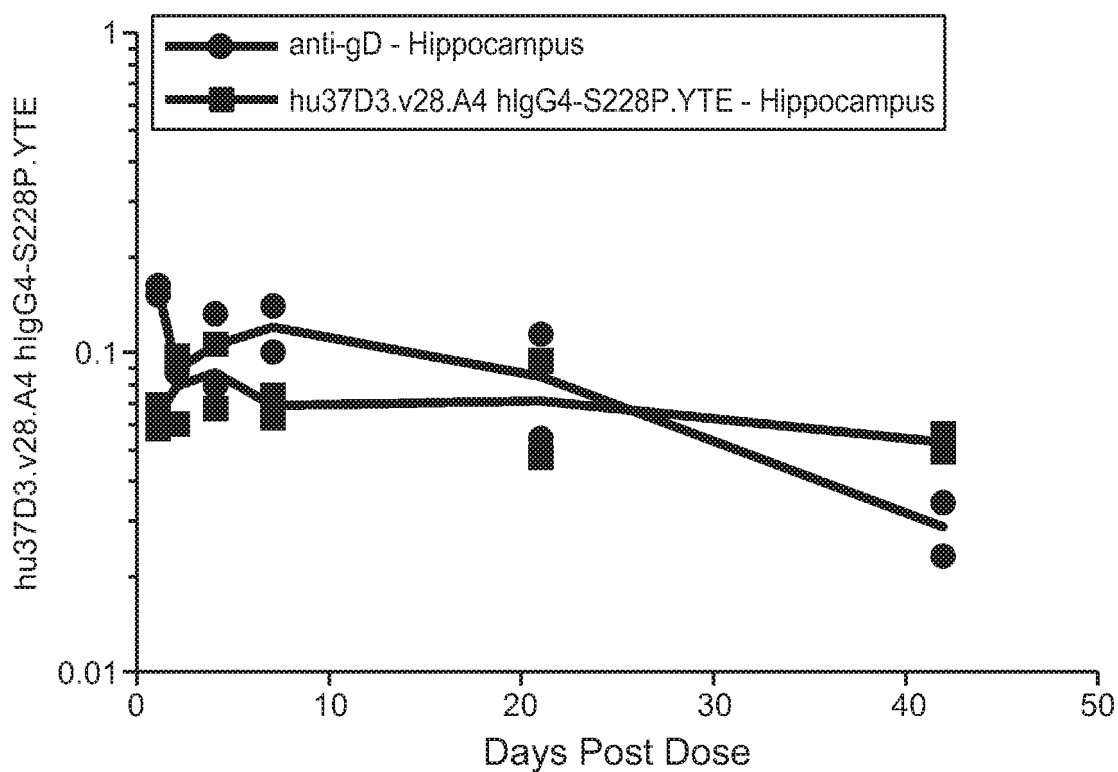
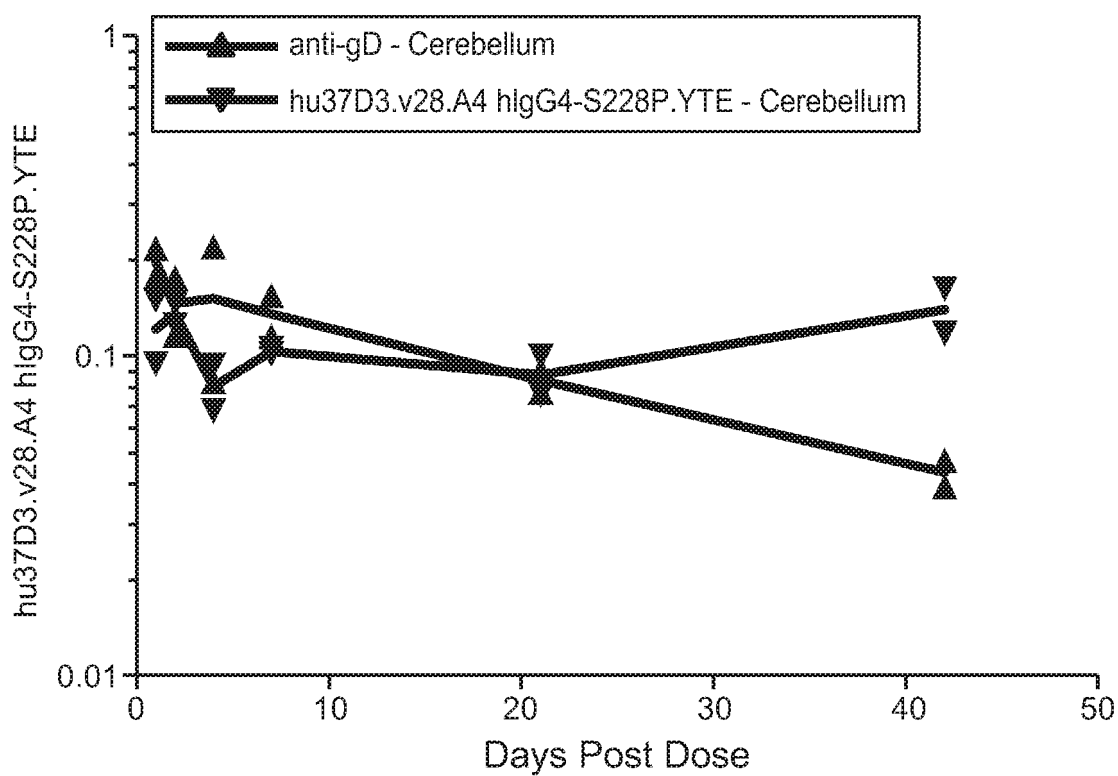
FIG. 20



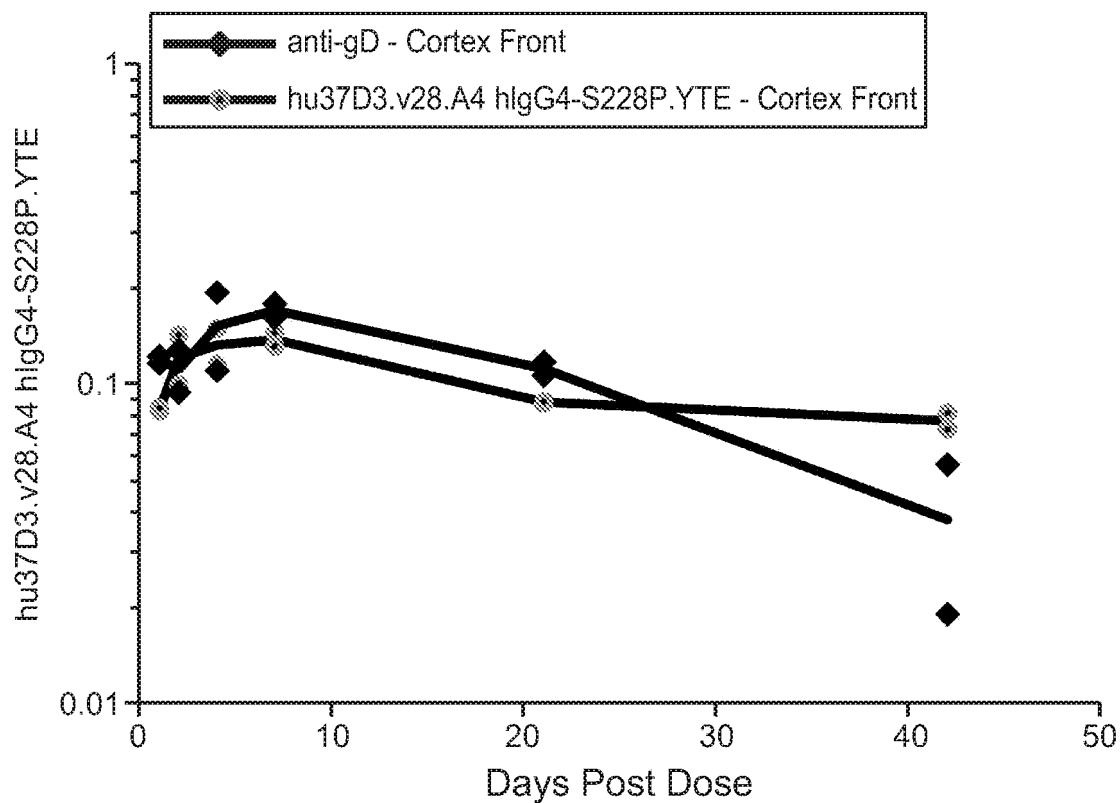
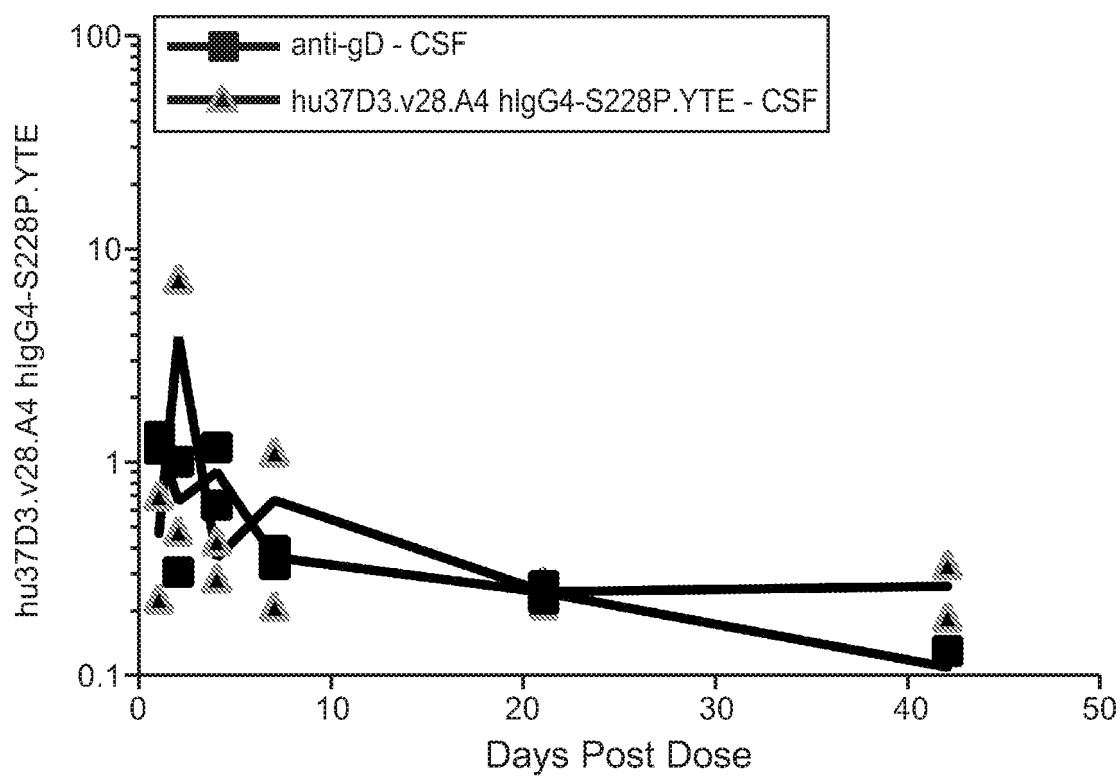
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**FIG. 22A****FIG. 22B**

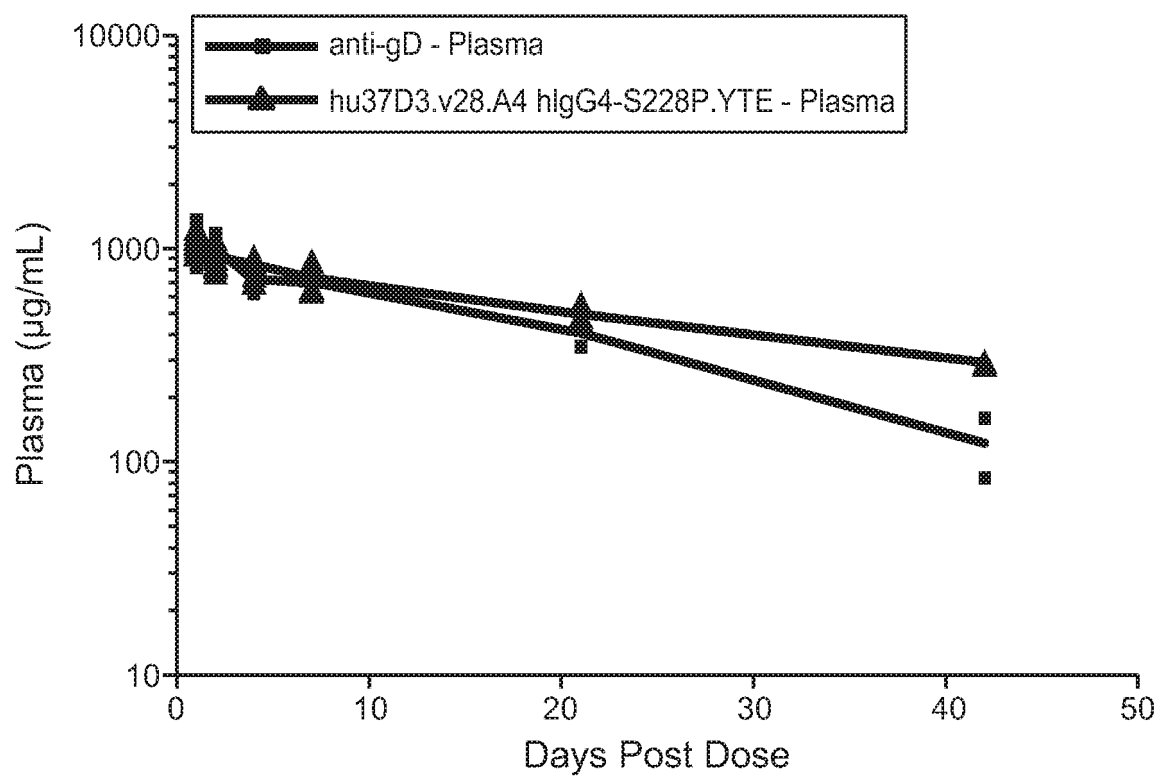
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**FIG. 23A****FIG. 23B**

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**FIG. 23C****FIG. 23D**

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**FIG. 23E**

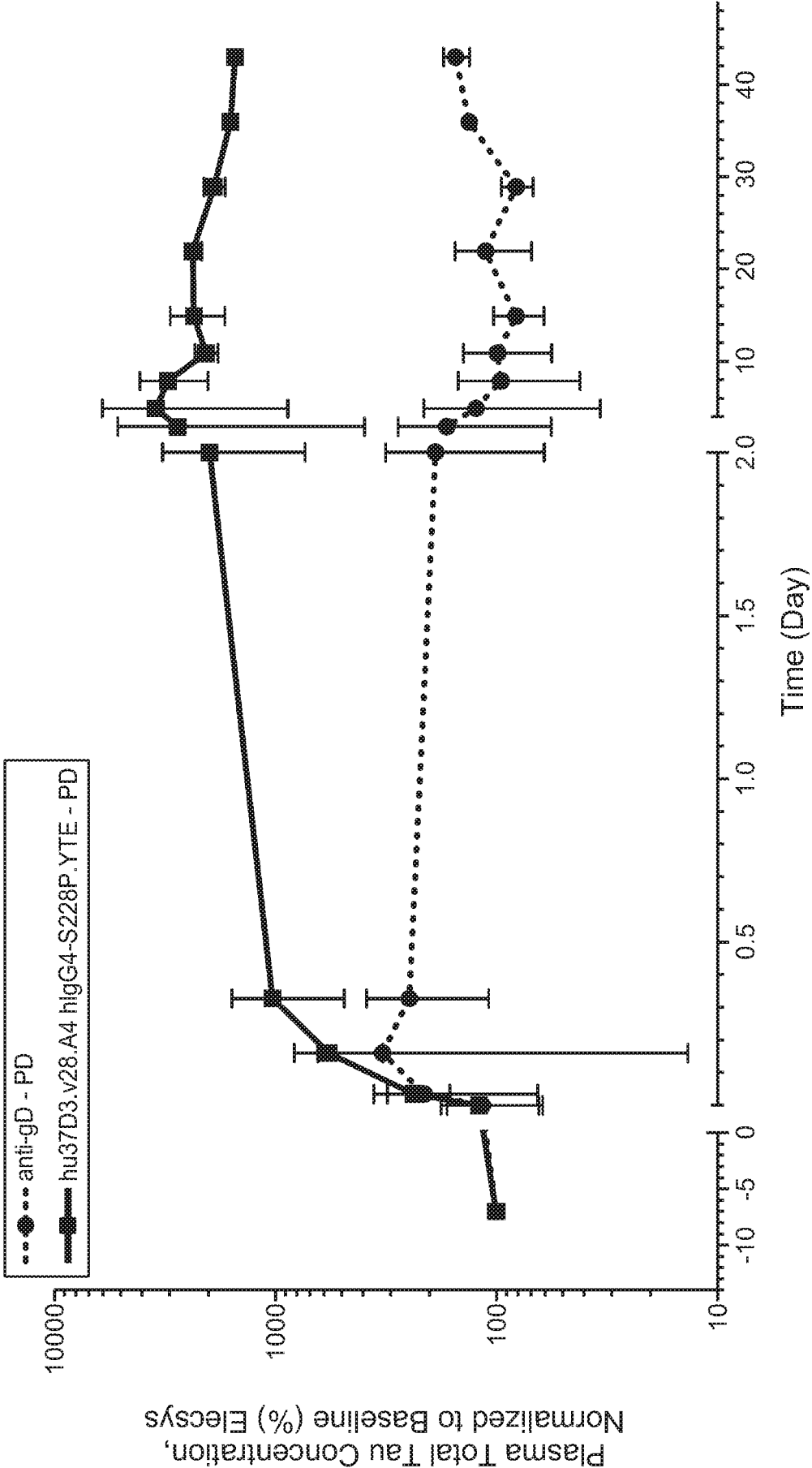


FIG. 24A

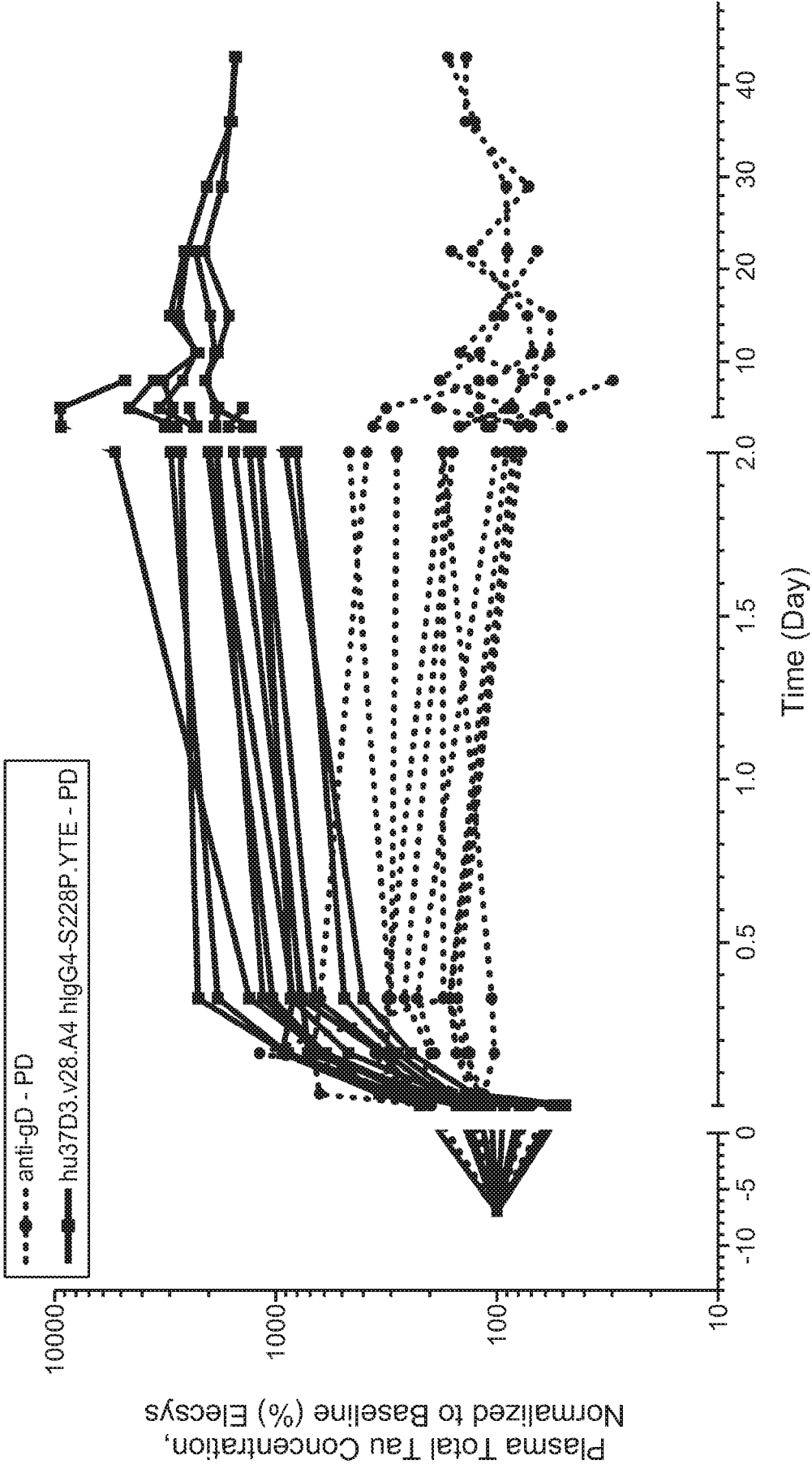


FIG. 24B