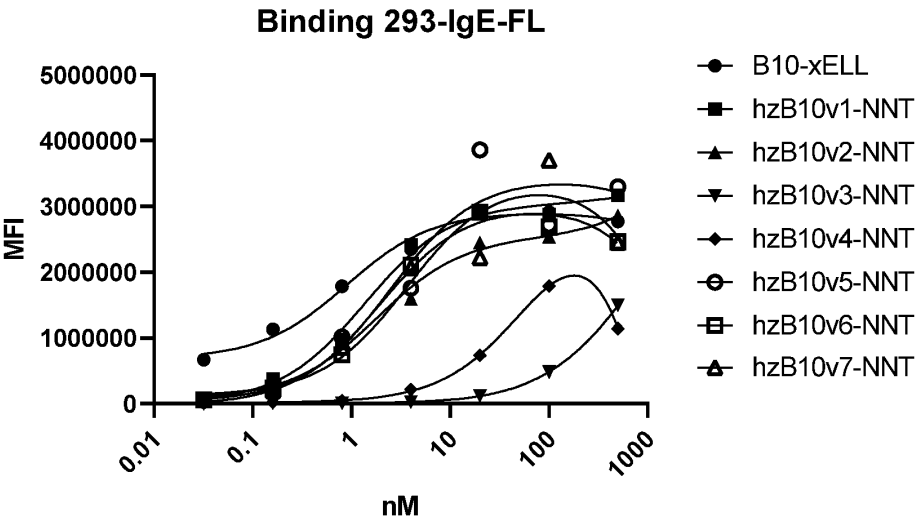
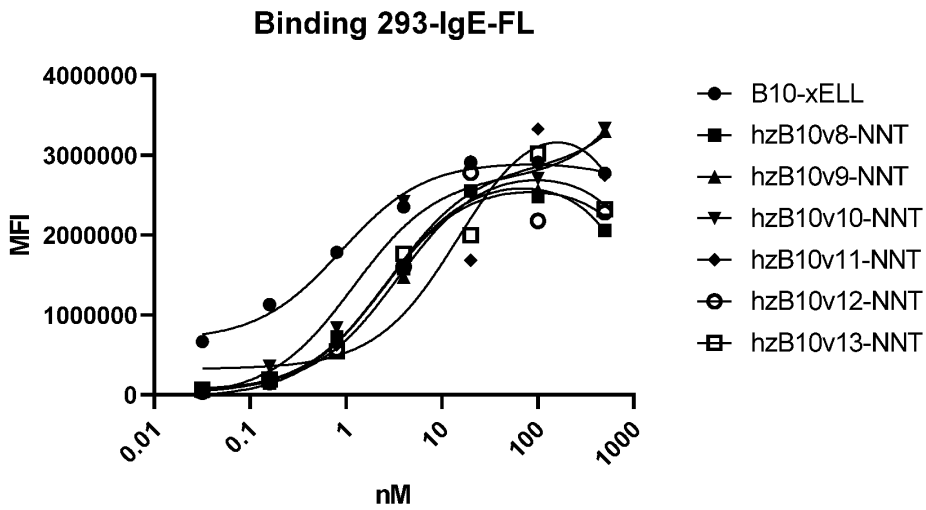




	Bmax	Kd
B10-xELL	2248196	0.8930
hzB10v1-NNT	3045188	1.373
hzB10v2-NNT	2460550	1.806
hzB10v3-NNT	1685598	341.8
hzB10v4-NNT	3890468	74.95
hzB10v5-NNT	3428741	2.497
hzB10v6-NNT	3078912	1.947
hzB10v7-NNT	3343917	3.708

FIG. 1A



	Bmax	Kd
B10-xELL	2248196	0.893
hzB10v8-NNT	2747999	2.737
hzB10v9-NNT	2831761	2.816
hzB10v10-NNT	2757679	1.19
hzB10v11-NNT	3409037	15.56
hzB10v12-NNT	2718931	2.373
hzB10v13-NNT	2818352	3.494

FIG. 1B

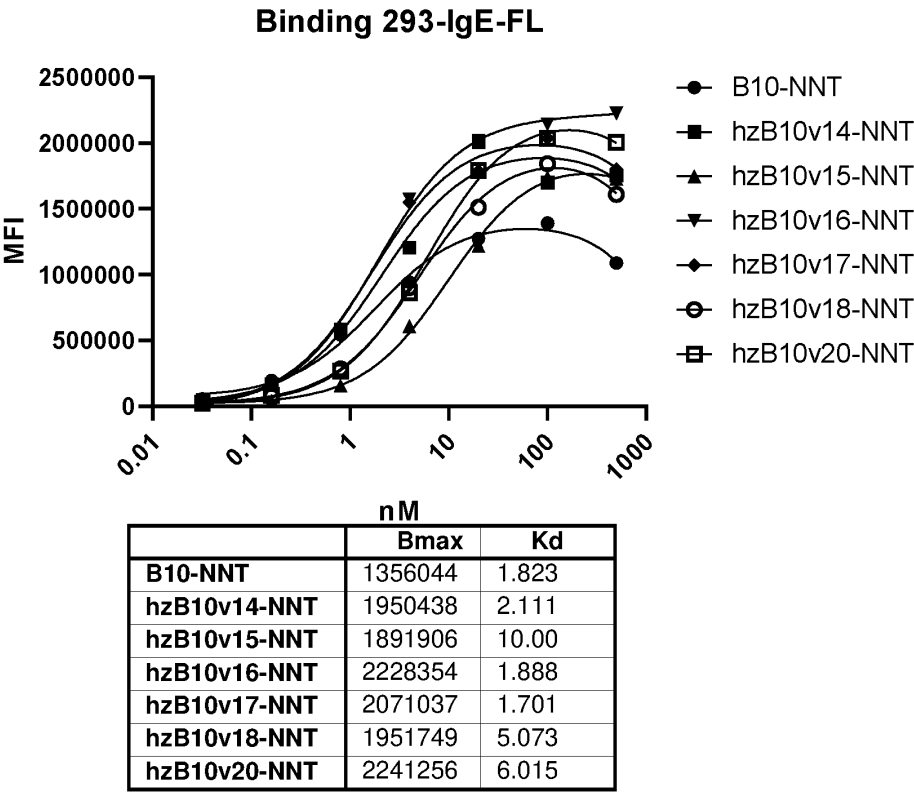
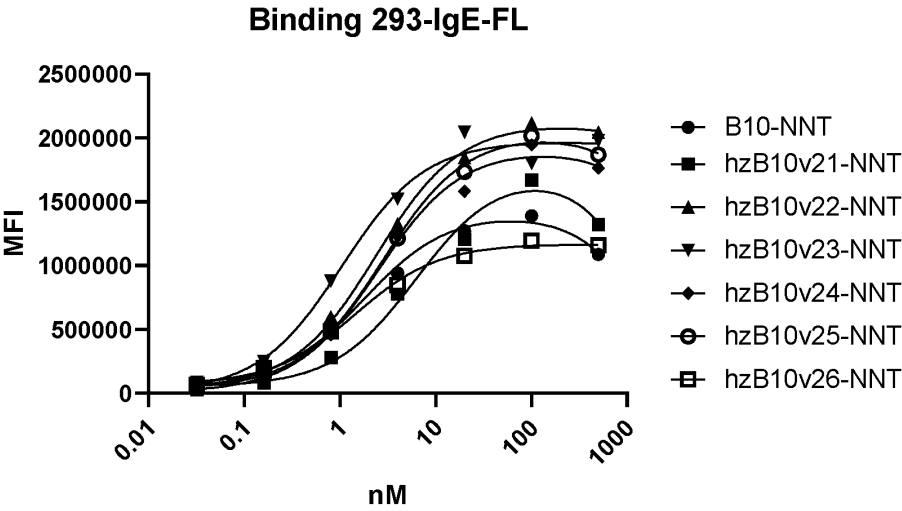
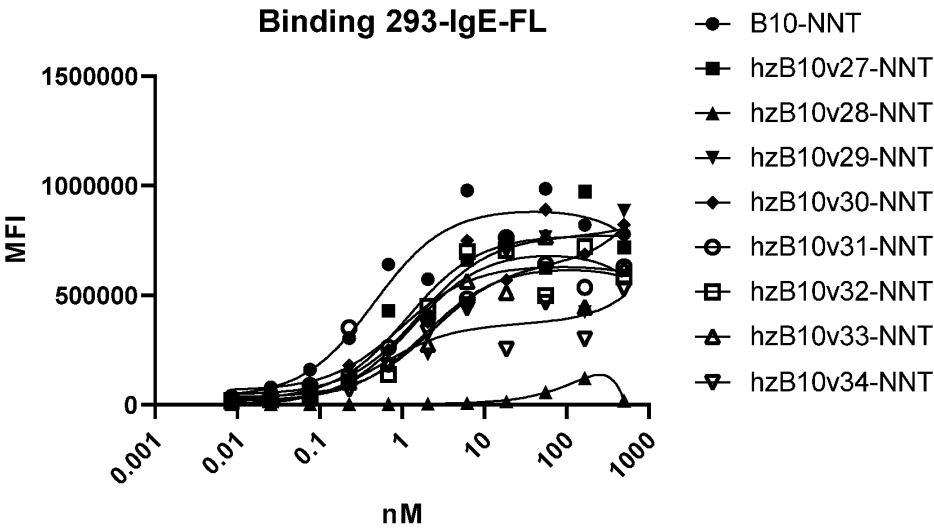


FIG. 1C



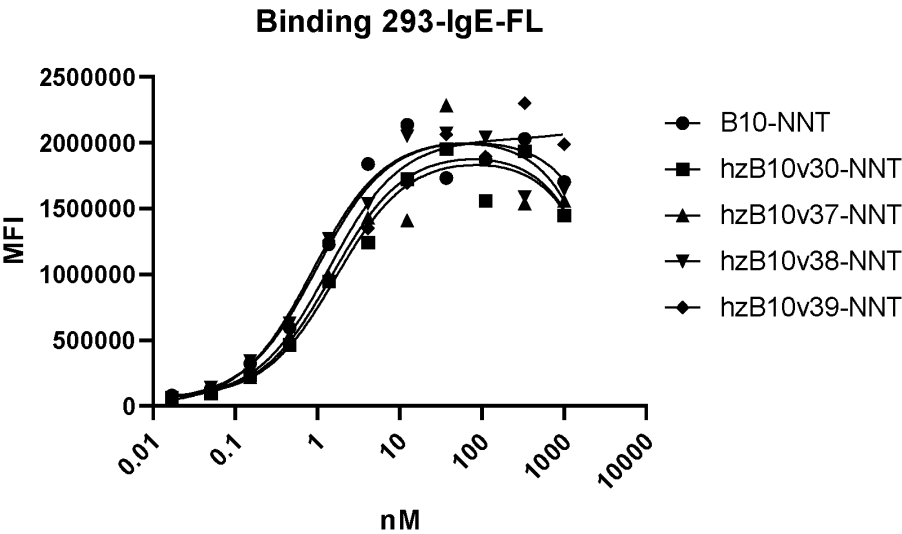
	Bmax	Kd
B10-NNT	1356044	1.823
hzB10v21-NNT	1717302	6.396
hzB10v22-NNT	2082412	2.386
hzB10v23-NNT	1963421	1.046
hzB10v24-NNT	1915555	2.517
hzB10v25-NNT	2012061	2.798
hzB10v26-NNT	1106849	1.434

FIG. 1D



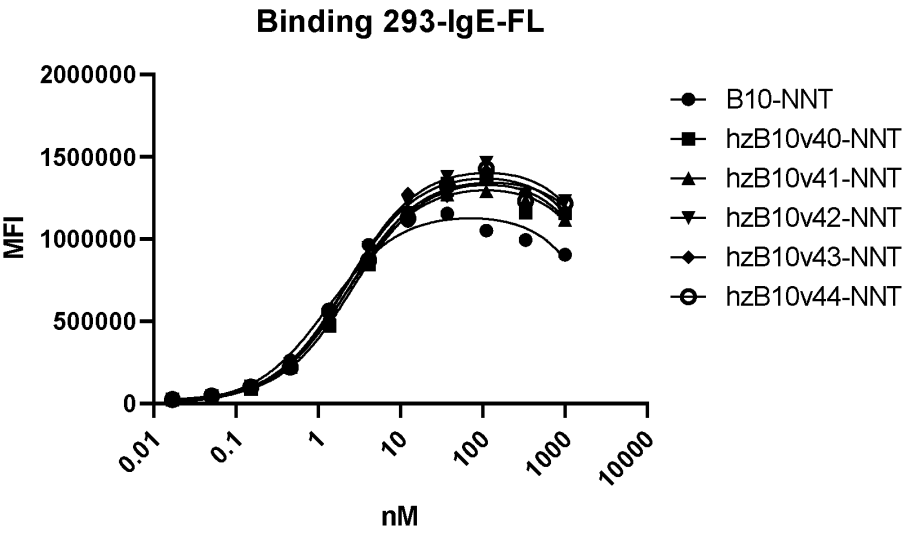
	Bmax	Kd
B10-NNT	866155	0.4606
hzB10v27-NNT	752532	1.162
hzB10v28-NNT	112448026	7072
hzB10v29-NNT	604687	2.307
hzB10v30-NNT	724622	1.629
hzB10v31-NNT	575321	0.9782
hzB10v32-NNT	705753	1.326
hzB10v33-NNT	616715	1.940
hzB10v34-NNT	374735	0.5496

FIG. 1E



	Bmax	Kd
B10-NNT	2036808	0.8722
hzB10v30-NNT	1842053	1.686
hzB10v37-NNT	1895180	1.515
hzB10v38-NNT	2015339	0.9799
hzB10v39-NNT	1983515	1.366

FIG. 1F



	Bmax	Kd
B10-NNT	1170947	1.304
hzB10v40-NNT	1377017	2.621
hzB10v41-NNT	1332407	2.258
hzB10v42-NNT	1448284	2.265
hzB10v43-NNT	1424253	2.181
hzB10v44-NNT	1375810	2.372

FIG. 1G

	10	20	30	40	50	60
B10	EVQLIVQSGGELVQAGGSLRLSCVAS	<u>GLTFSSYNMG</u>	WLRQAPGKEREFVGM	<u>MSGSSSTSTY</u>	YADSVK	
hzB10v1	...LE...G...P.....					
hzB10v2	.....		V.....S.....			
hzB10v3	.....		V.....			
hzB10v4	.....					E...
hzB10v5	.....					
hzB10v6	.....					
hzB10v7	.....				L.....	
hzB10v8	.....				I.....	
hzB10v9	.....				V.....	
hzB10v10	.....					
hzB10v11	.....					
hzB10v12	.....					
hzB10v13	.....					E...
hzB10v14	...LE...GE..P.....				L.....	
hzB10v15	...LE...GE..P.....		V.....	SL.....		
hzB10v16	...LE...GE..P.....			L.....	E...	
hzB10v17	...LE...GE..P.....			L.....	A...	
hzB10v18	...LE...GE..P.....			L.....	T...	
hzB10v20	...LE...GE..P.....			L.....		
hzB10v21	...LE...GE..P.....			L.....		
hzB10v22	...LE...GE..P.....			L.....		
hzB10v23	...LE...GE..P.....			L.....		
hzB10v24	...LE...GE..P.....		V.....	L.....		
hzB10v25	...LE...GE..P.....			SL.....		
hzB10v26	...LE...GE..P.....					
hzB10v27	...LE...GE..P.....			L.....	E...	
hzB10v28	...LE...GE..P.....			L.....	E...	
hzB10v29	...LE...GE..P.....			L.....	E...	
hzB10v30	...LE...GE..P.....			L.....	E...	
hzB10v31	...LE...GE..P.....			L.....	E...	
hzB10v32	...LE...GE..P.....		V.....	L.....	E...	
hzB10v33	...LE...GE..P.....			SL.....	E...	
hzB10v34	...LE...GE..P.....		V.....	SL.....	E...	
hzB10v37	...LE...GE..P.....			L.....	E...	
hzB10v38	...LE...GE..P.....			L.....	E...	
hzB10v39	...LE...GE..P.....			L.....	E...	
hzB10v40	...LE...GE..P.....			L.....	E...	
hzB10v41	...LE...GE..P.....			L.....	E...	
hzB10v42	...LE...GE..P.....			L.....	E...	
hzB10v43	...LE...GE..P.....			L.....	E...	
hzB10v44	...LE...GE..P.....			L.....	E...	
VH3-23	...LE...GE..P.....	A... <u>F</u> <u>A.S</u> ..V.....GL.W.SA	<u>ISG.GG</u>.....E...			

FIG. 2A

	70	80	90	100	110	120	SEQ ID NO:
B10	GRFTISRDNSKNTVYLQMN	SLKPEDTAVYYCAA	<u>RRRLSTYWS</u>	DRSWDF	WGQGTQVTVKP		2
hzB10v1	.....	.....	.....	.....	.....	.....	6
hzB10v2	.....	.....	.....	.....	.....	.....	7
hzB10v3	.....	.....	.....	.....	.....	.....	8
hzB10v4	A...L...S...RA.....	.....	.....	.....	.....	.....	9
hzB10v5	L.....	.....	.....	.....	.....	E.....	10
hzB10v6	.....	.....	.....	.....	.....	R.....	11
hzB10v7	.....	.....	.....	.....	.....	.....	12
hzB10v8	.....	.....	.....	.....	.....	.....	13
hzB10v9	.....	.....	.....	.....	.....	.....	14
hzB10v10	.....	.....	.....	L.....	.....	A.....	15
hzB10v11	.....	.....	.....	I.....	.....	.....	16
hzB10v12	.....	.....	.....	V.....	.....	.....	17
hzB10v13	A.....	.....	.....	.....	.....	A.....	18
hzB10v14	.....	.....	.....	L.....	.....	E.....	19
hzB10v15	.....	.....	.....	L.....	.....	E.....	20
hzB10v16	.....	.....	.....	L.....	.....	E.....	21
hzB10v17	.....	.....	.....	L.....	.....	E.....	22
hzB10v18	.....	.....	.....	L.....	.....	E.....	23
hzB10v20	L.....	.....	.....	L.....	.....	E.....	24
hzB10v21	.....	S.....	.....	L.....	.....	E.....	25
hzB10v22	.....	.....	R.....	L.....	.....	E.....	26
hzB10v23	.....	.....	A.....	L.....	.....	E.....	27
hzB10v24	.....	.....	.....	L.....	.....	E.....	28
hzB10v25	.....	.....	.....	L.....	.....	E.....	29
hzB10v26	.....	.....	.....	.....	.....	.....	30
hzB10v27	.....	.....	RA.....	L.....	.....	E.....	31
hzB10v28	.....	S.....	RA.....	L.....	.....	E.....	32
hzB10v29	.....	Q.....	RA.....	L.....	.....	E.....	33
hzB10v30	.....	T.....	RA.....	L.....	.....	E.....	34
hzB10v31	.....	T.....	RA.....	L.....	.....	E.....	35
hzB10v32	.....	.....	RA.....	L.....	.....	E.....	36
hzB10v33	.....	.....	RA.....	L.....	.....	E.....	37
hzB10v34	.....	.....	RA.....	L.....	.....	E.....	38
hzB10v37	.....	T.....	A.....	L.....	.....	L...E.....	39
hzB10v38	.....	T.....	R.....	L.....	.....	L...E.....	40
hzB10v39	.....	T.....	RA.....	L.....	.....	L...E.....	41
hzB10v40	A.....	T.....	RA.....	L.....	.....	L...E.....	42
hzB10v41	Q.....	T.....	RA.....	L.....	.....	L...E.....	43
hzB10v42	S.....	T.....	RA.....	L.....	.....	L...E.....	44
hzB10v43	T.....	T.....	RA.....	L.....	.....	L...E.....	45
hzB10v44	T.....	T.....	RA.....	L.....	.....	L...E.....	46
VH3-23	A...L...S...RA.....	.....	.....	.....	.....	.....	94

FIG. 2B

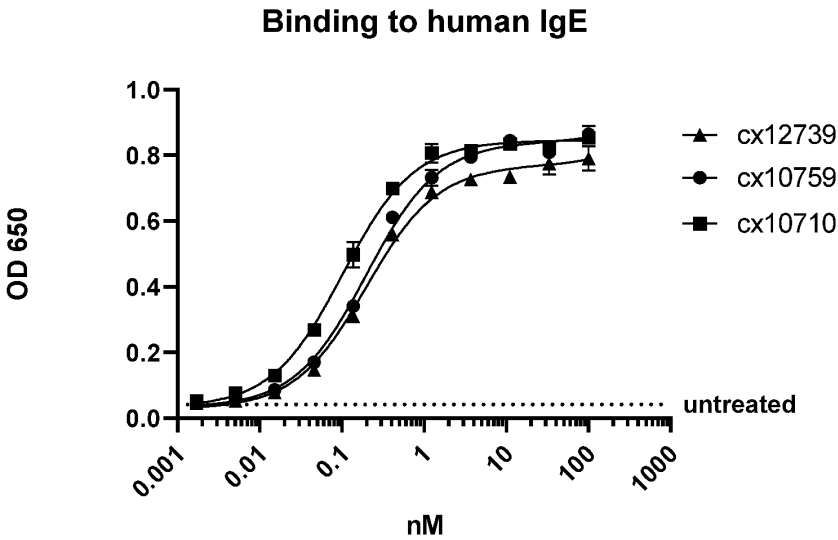


FIG. 3A

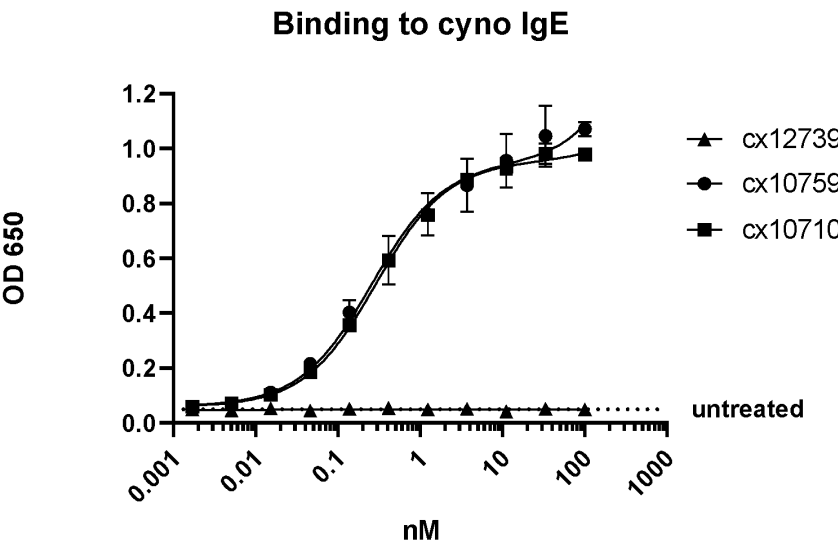


FIG. 3B

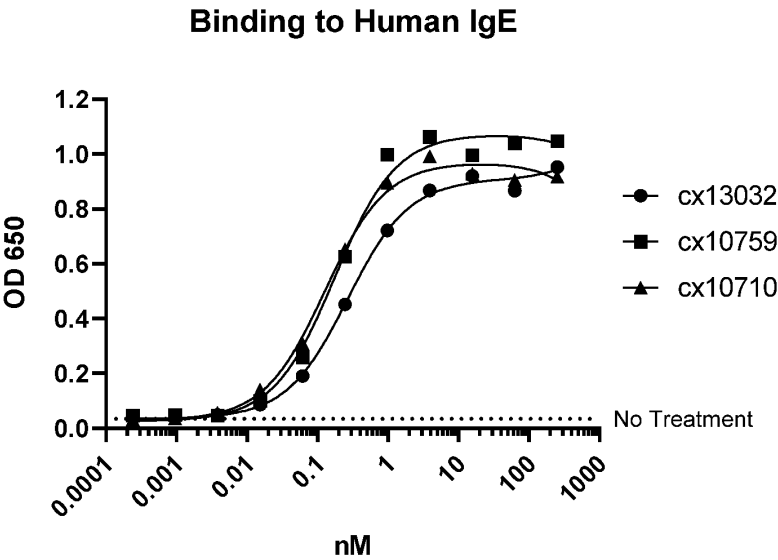


FIG. 3C

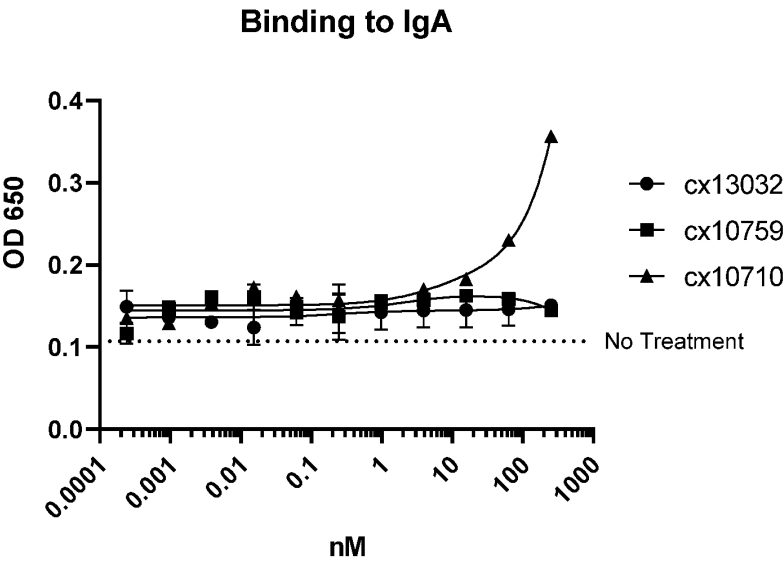


FIG. 3D

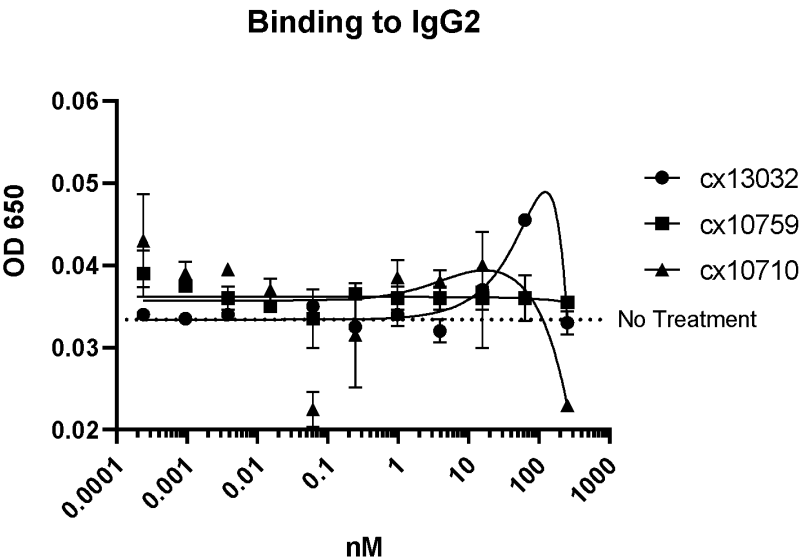


FIG. 3E

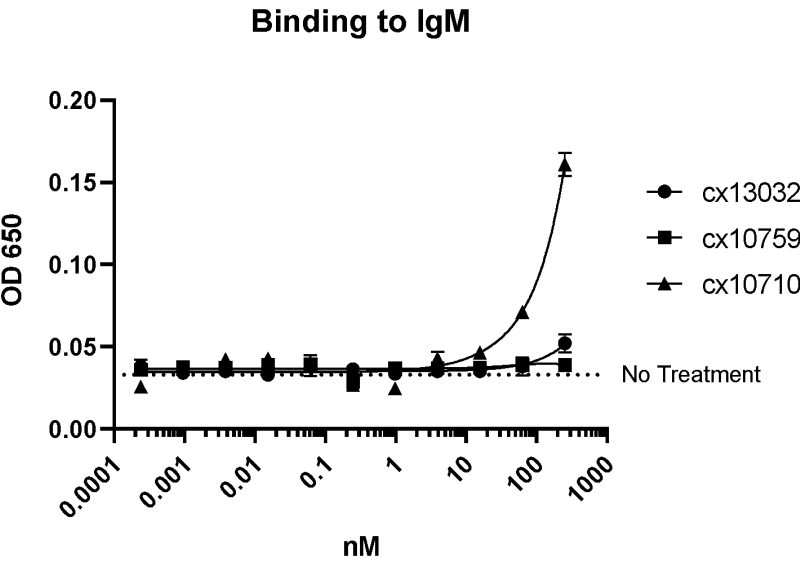


FIG. 3F

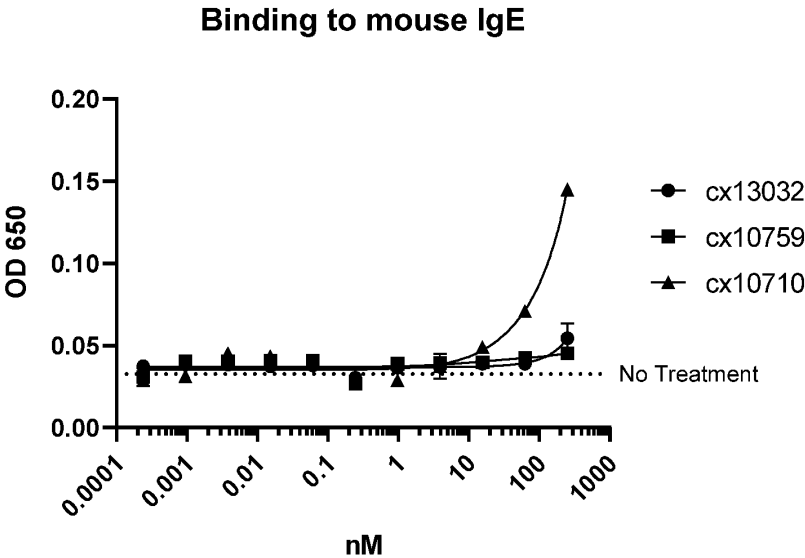


FIG. 3G

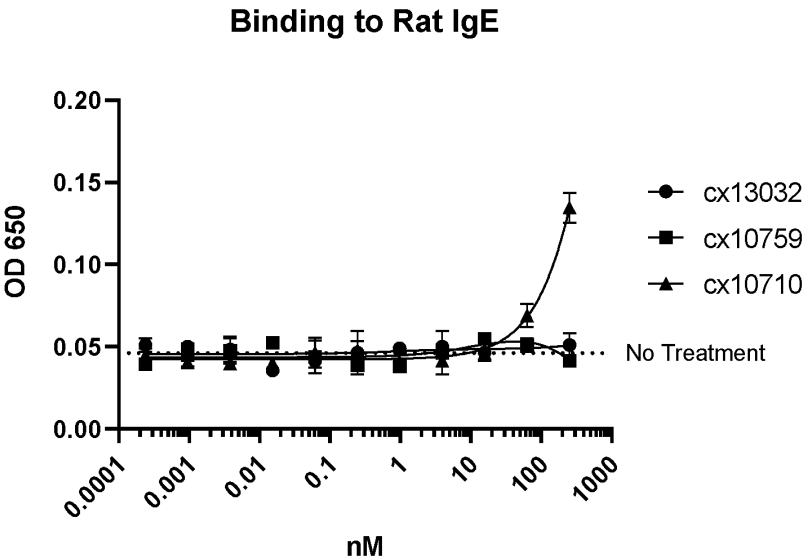


FIG. 3H

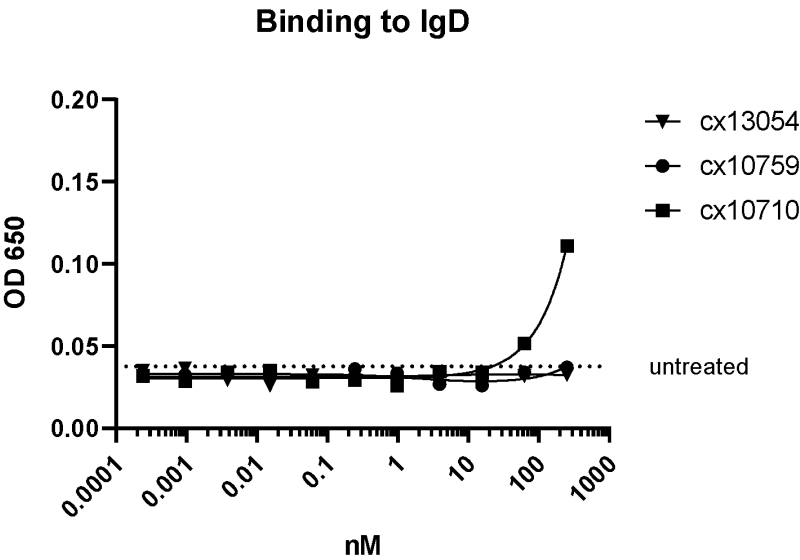


FIG. 3I

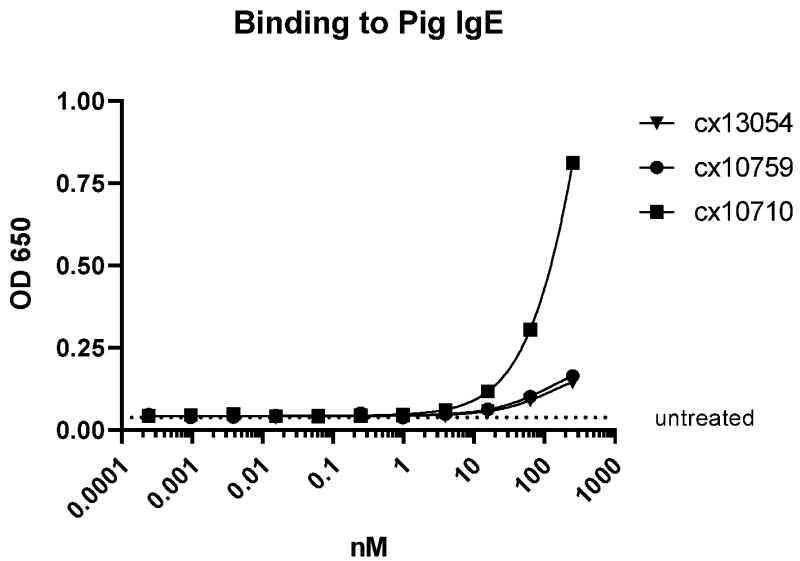


FIG. 3J

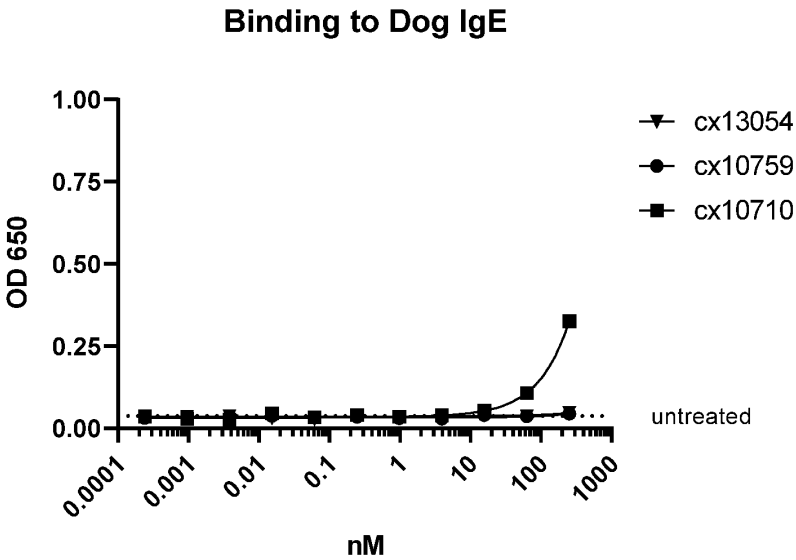
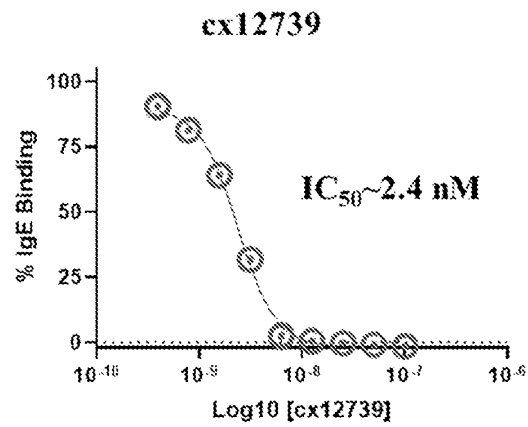
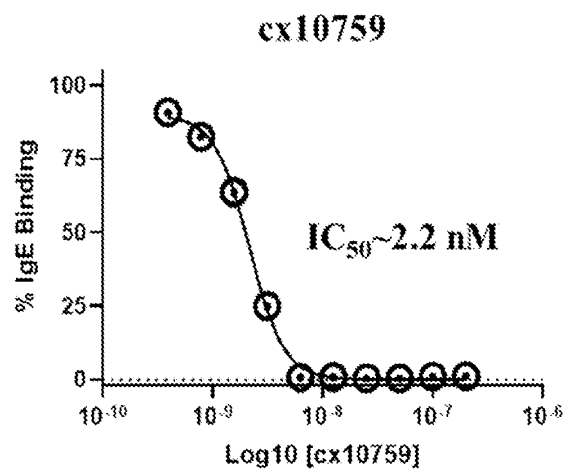


FIG. 3K

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

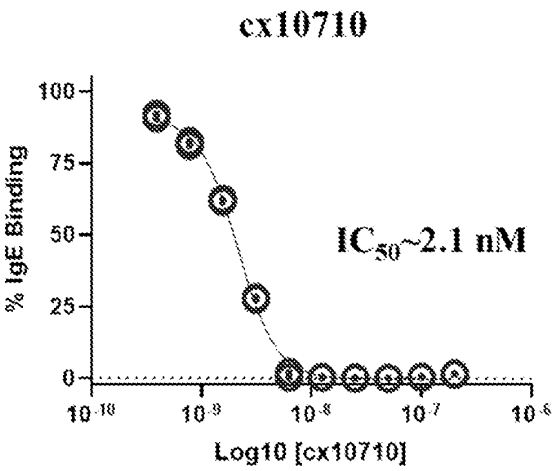


FIG. 4C

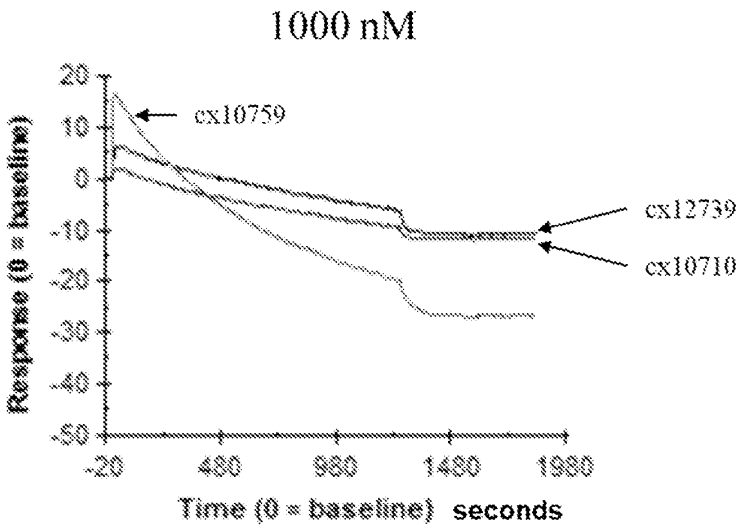


FIG. 5A

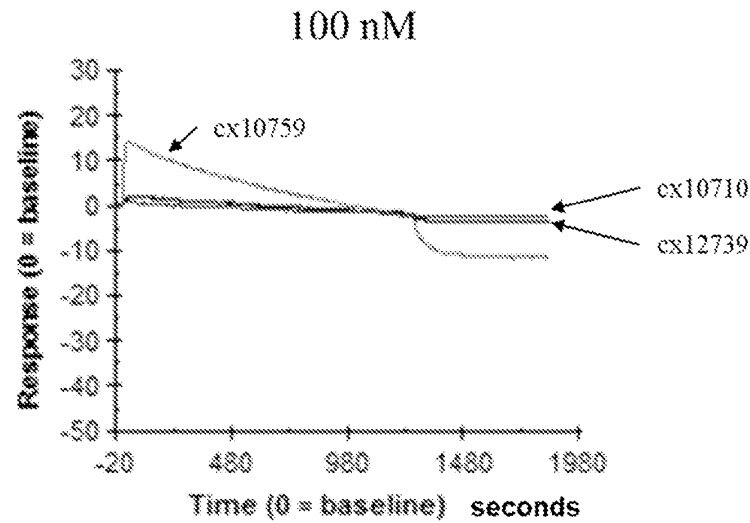


FIG.5B

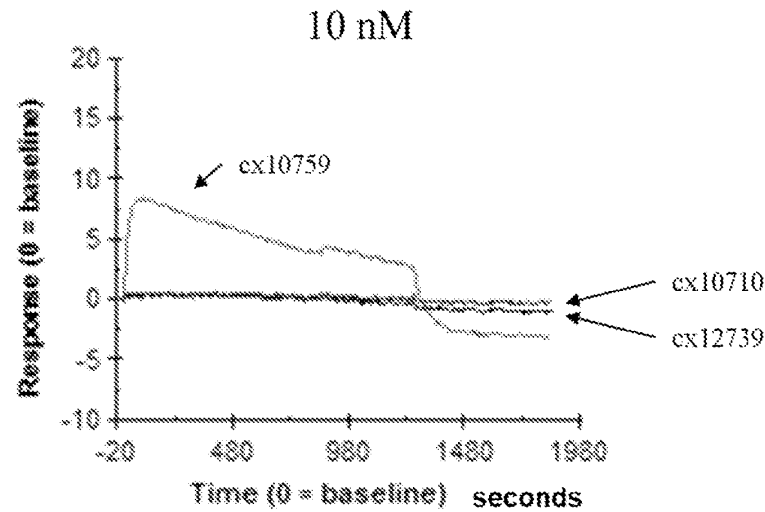


FIG. 5C

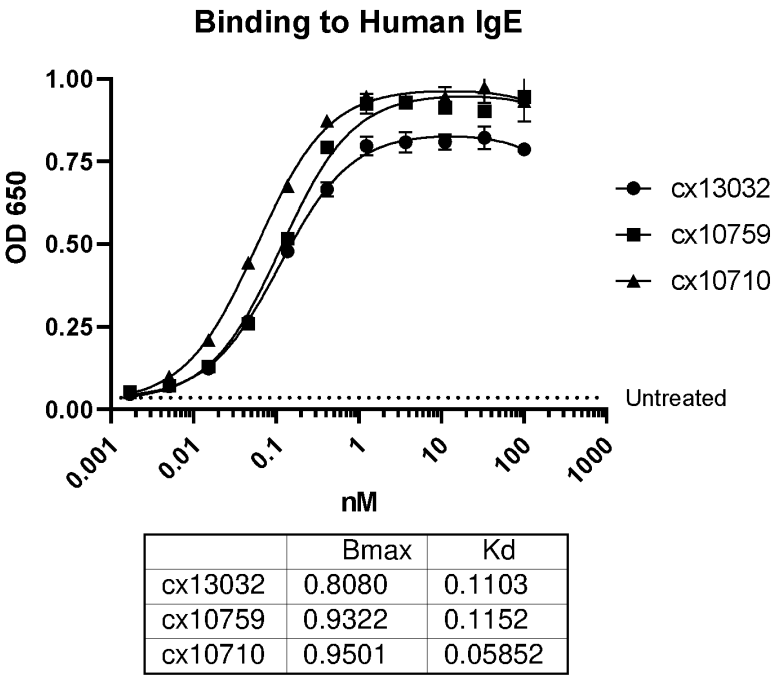


FIG. 6A

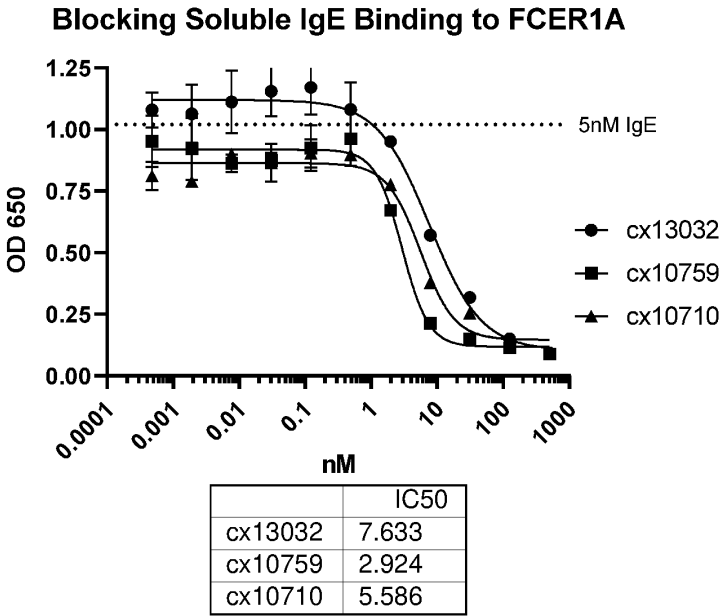


FIG. 6B

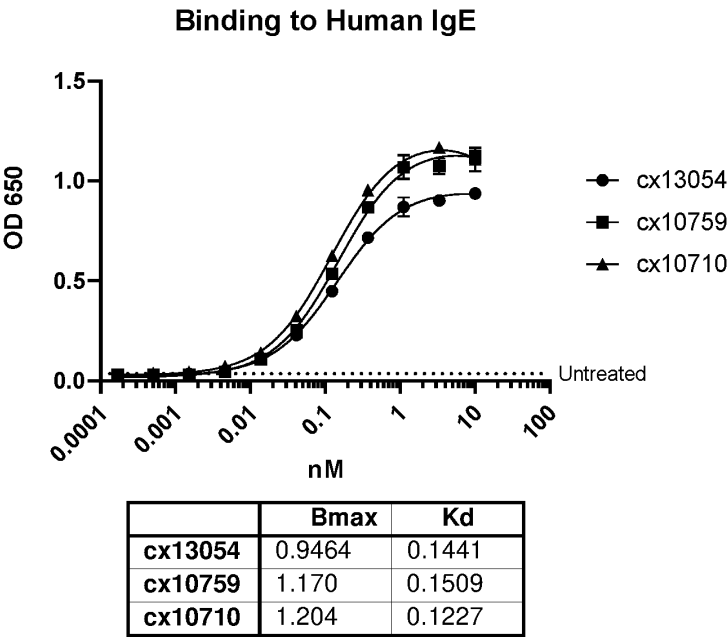


FIG. 6C

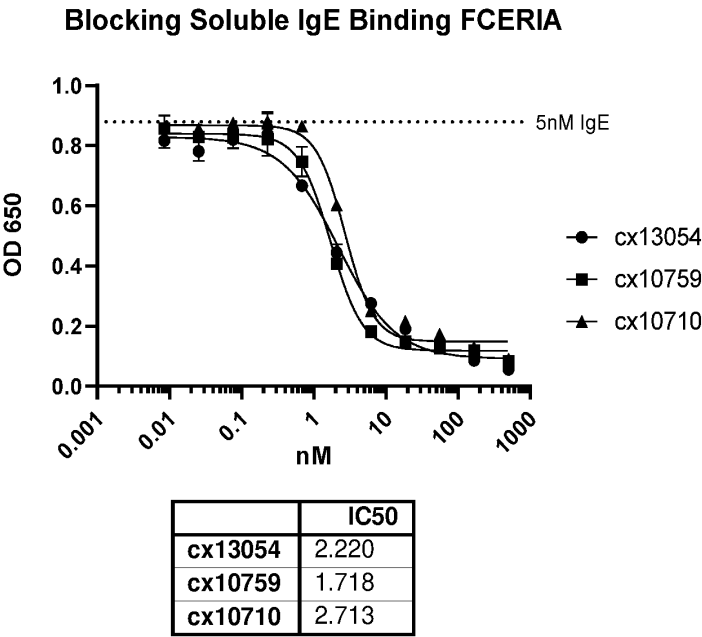


FIG. 6D

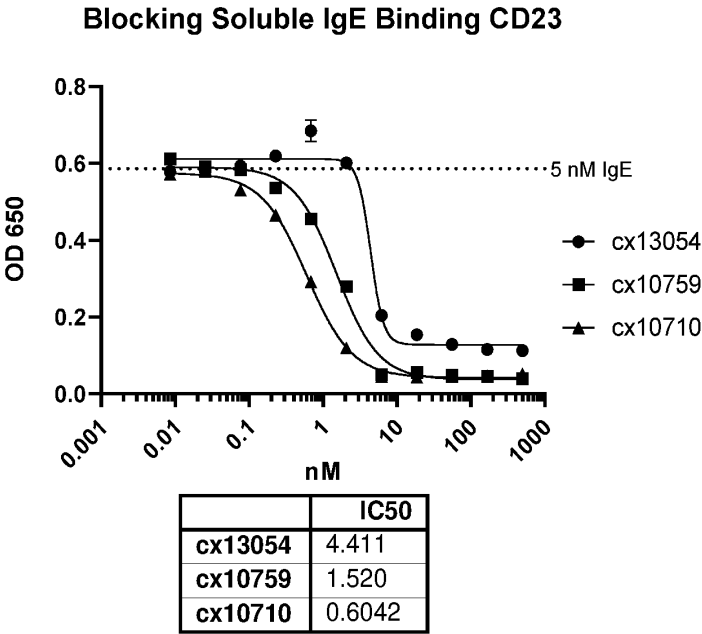
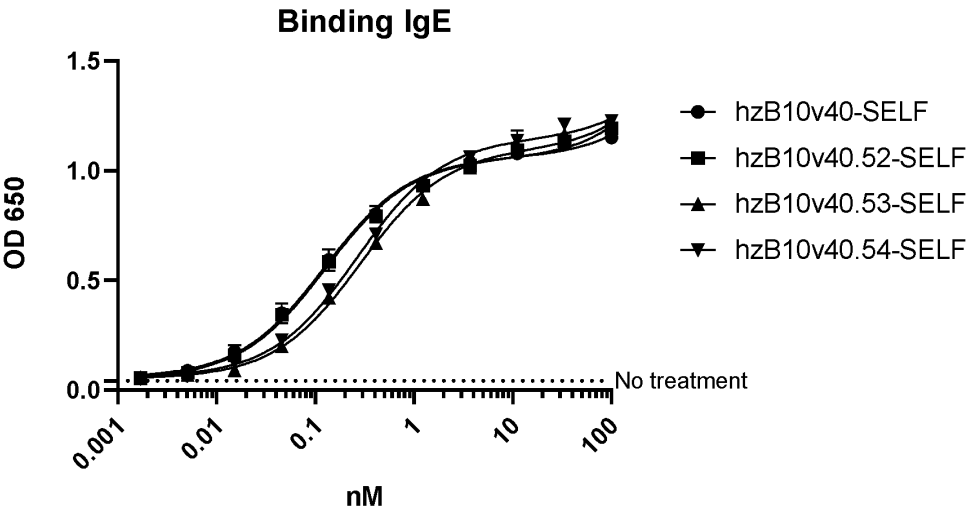


FIG. 6E



	Bmax	Kd
hzB10v40-SELF	1.007	0.1242
hzB10v40.52-SELF	1.008	0.1270
hzB10v40.53-SELF	1.046	0.2841
hzB10v40.54-SELF	1.088	0.2638

FIG. 6F

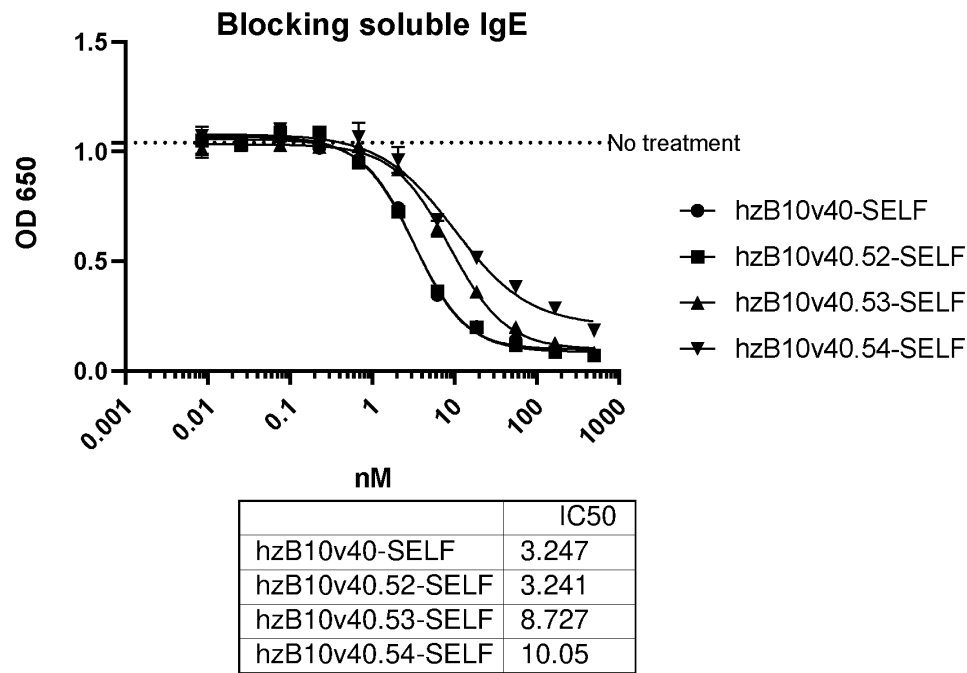


FIG. 6G

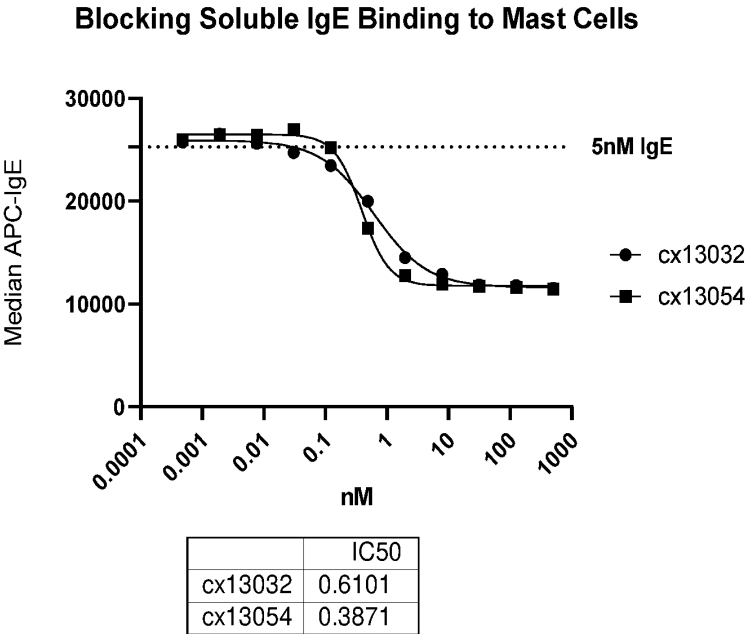


FIG. 7A

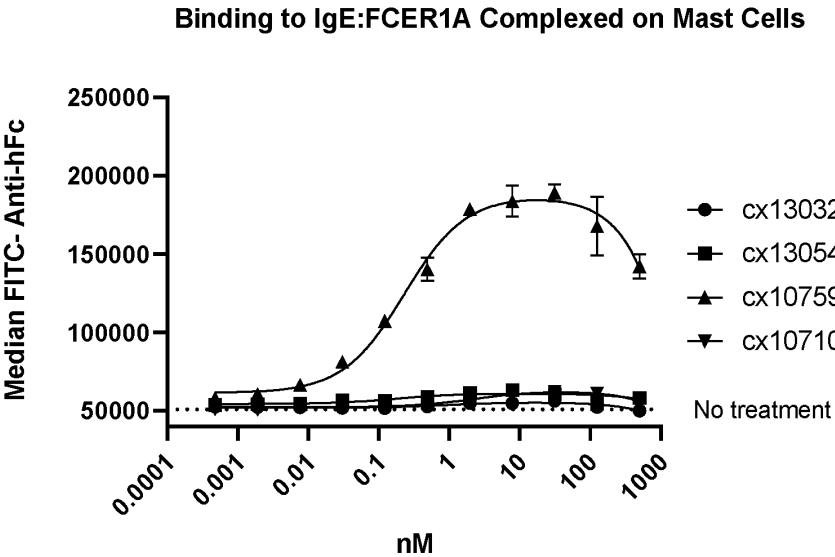


FIG. 7B

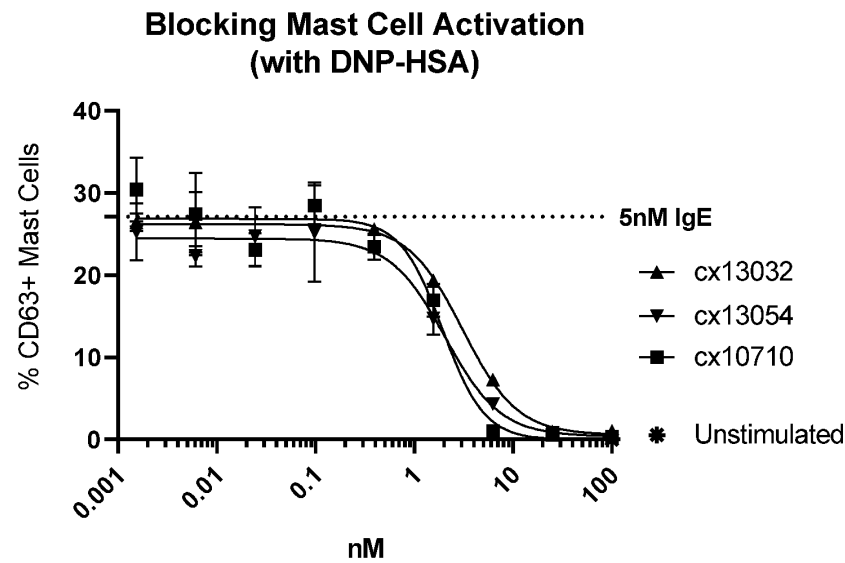


FIG. 8A

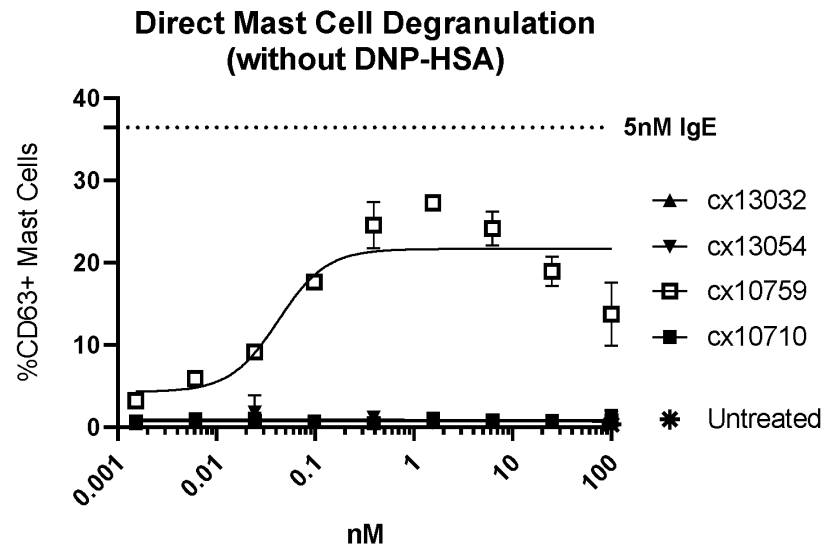


FIG. 8B

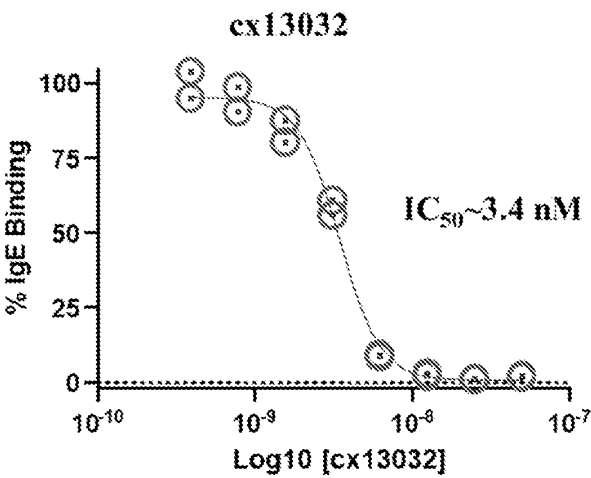


FIG. 9A

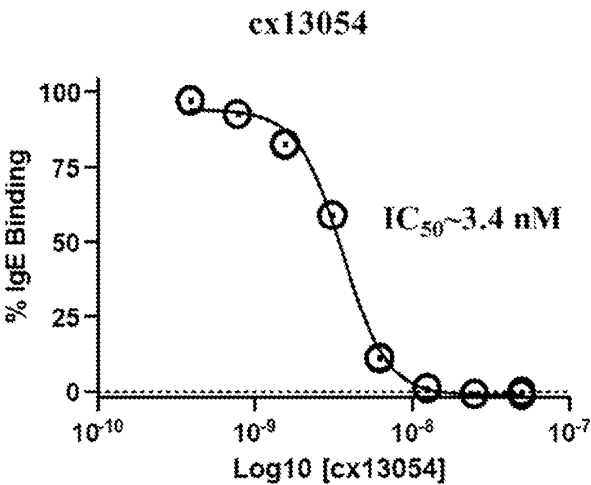


FIG. 9B

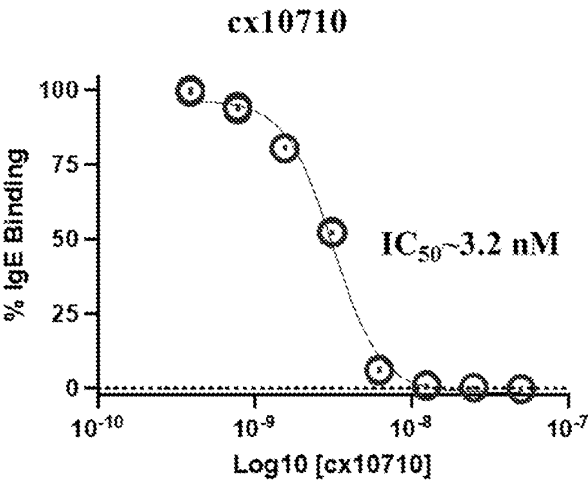


FIG. 9C

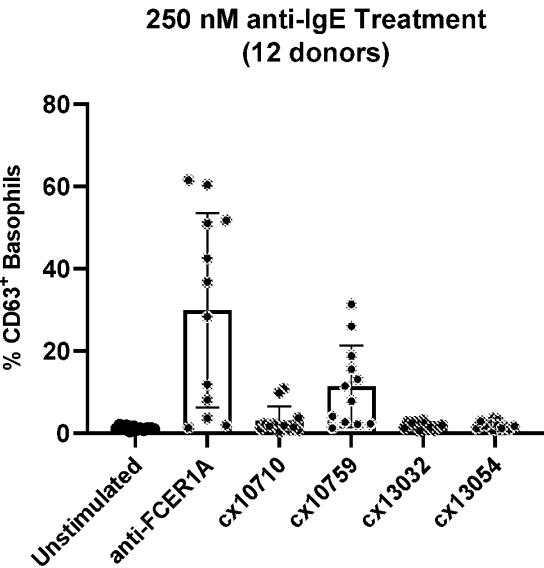


FIG. 10A

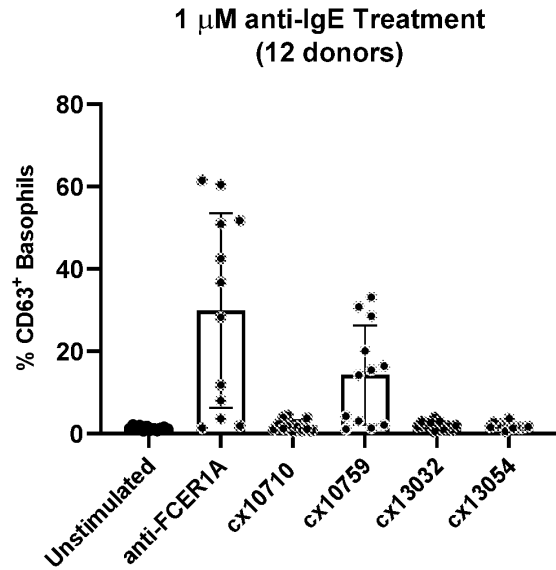


FIG. 10B

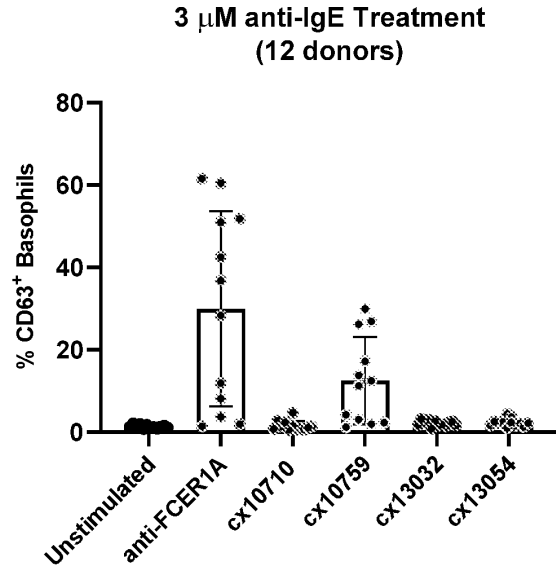


FIG. 10C

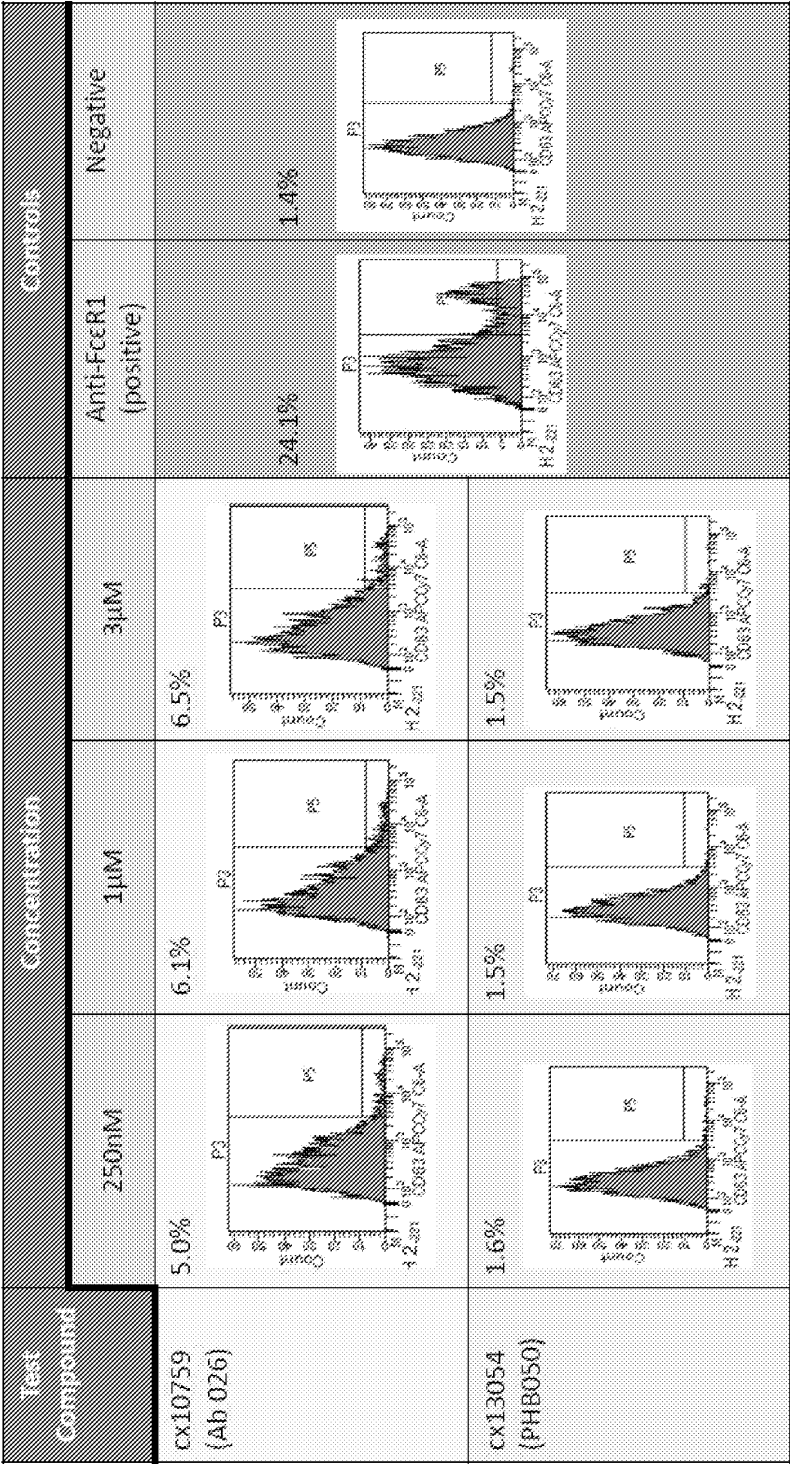


FIG. 10D

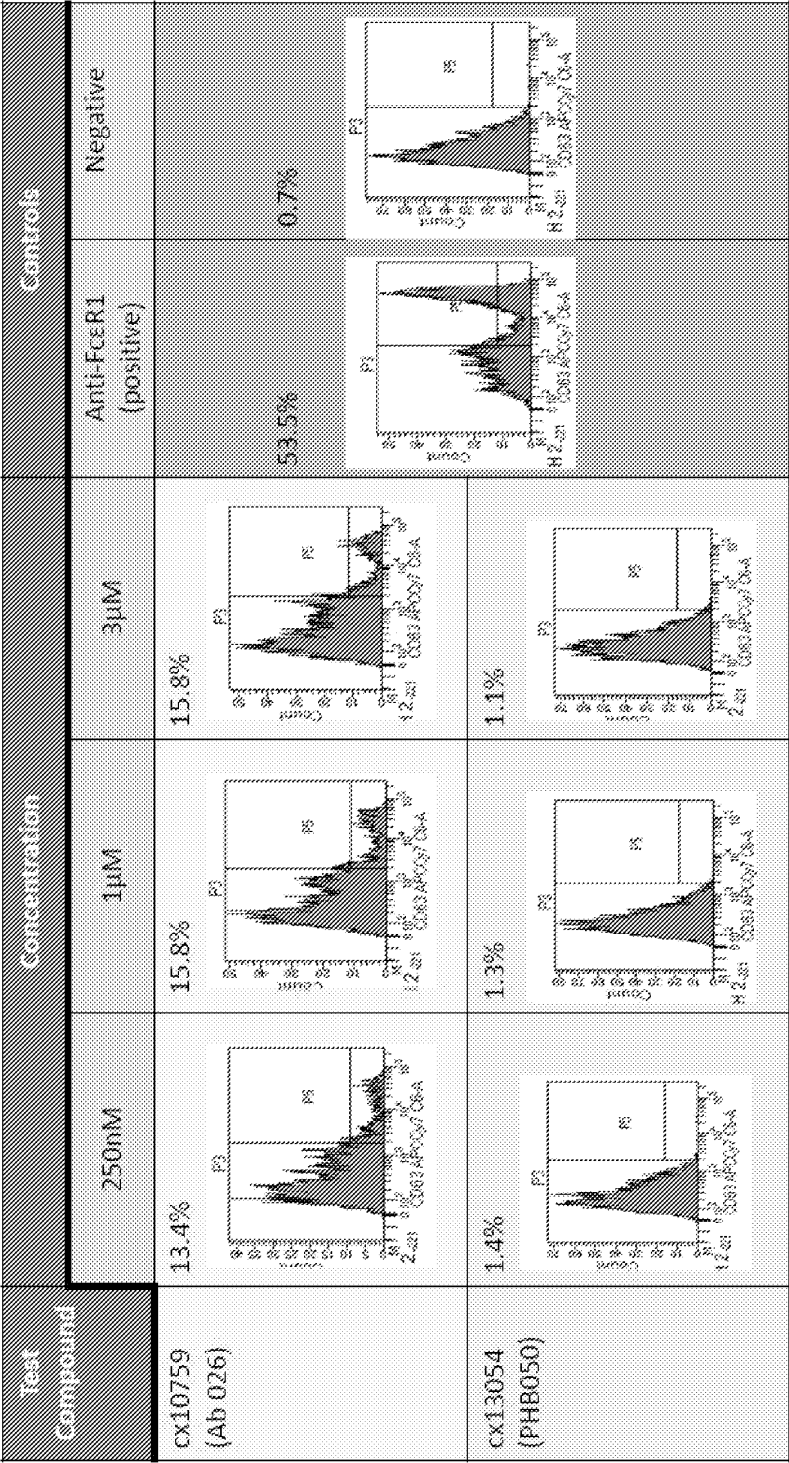


FIG. 10E

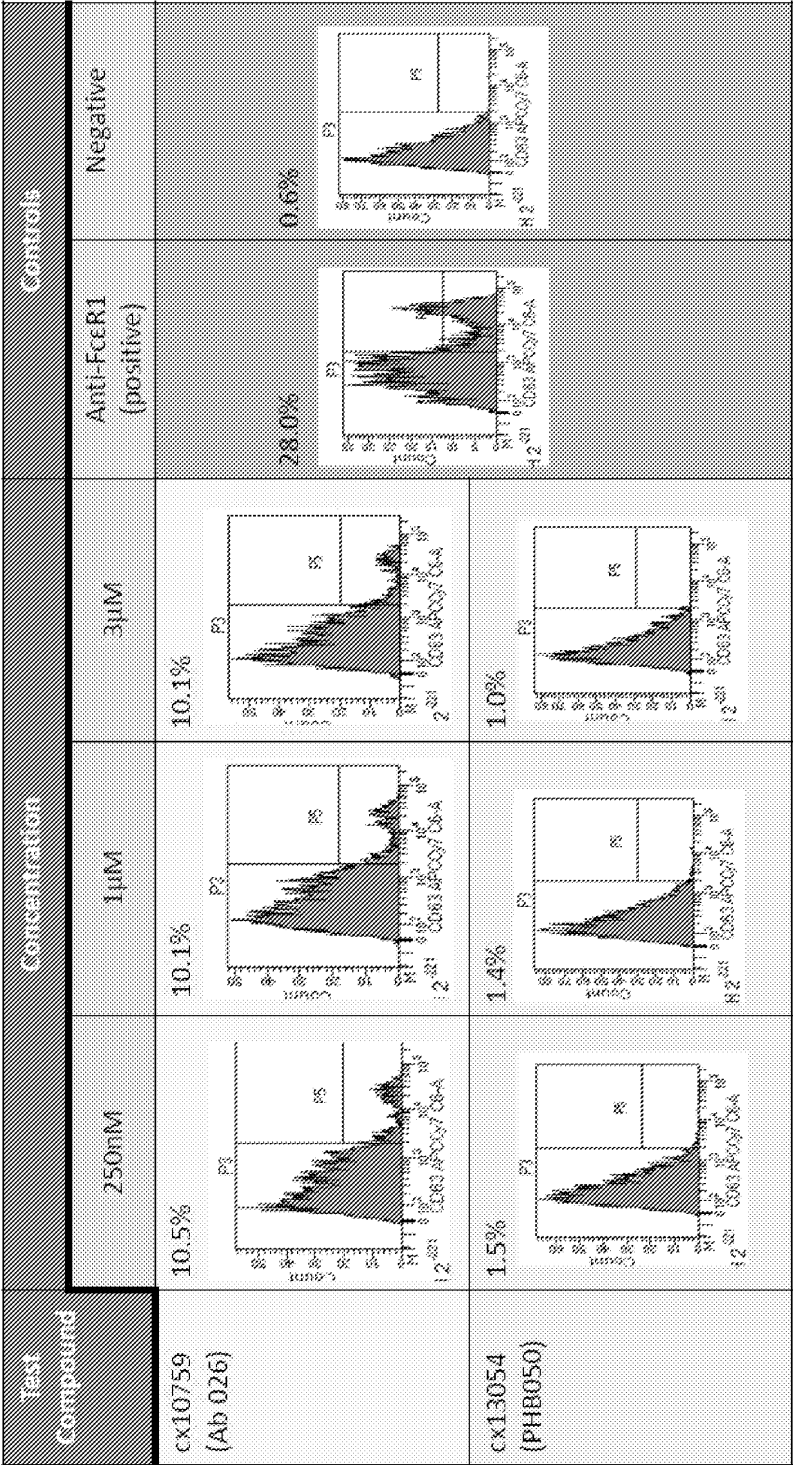


FIG. 10F

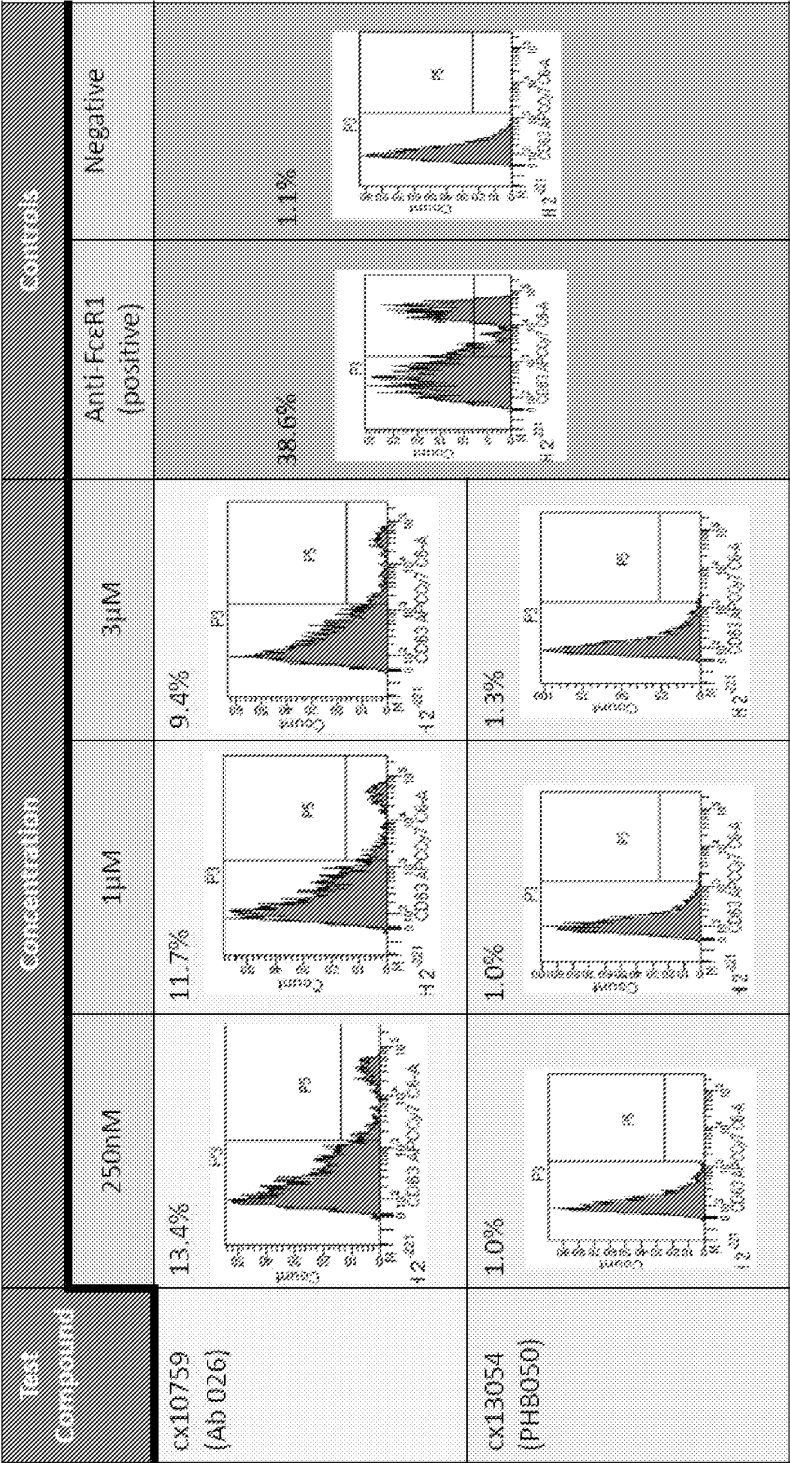


FIG. 10G

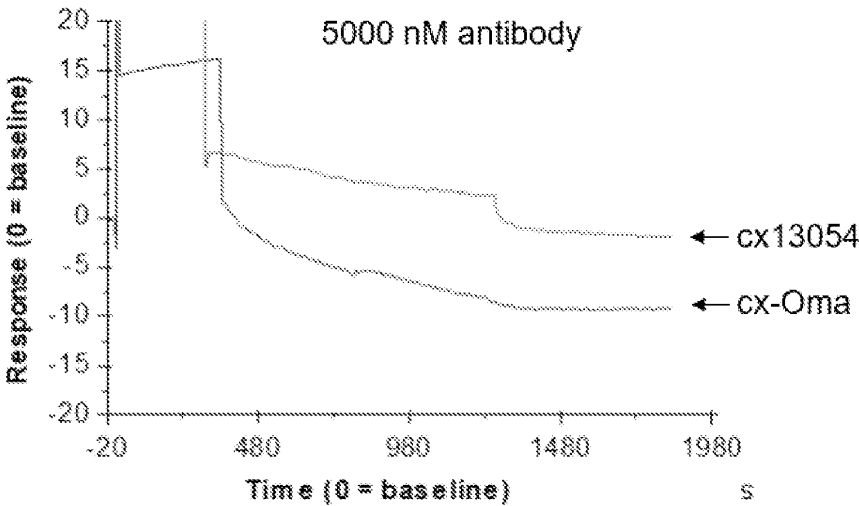


FIG. 11A

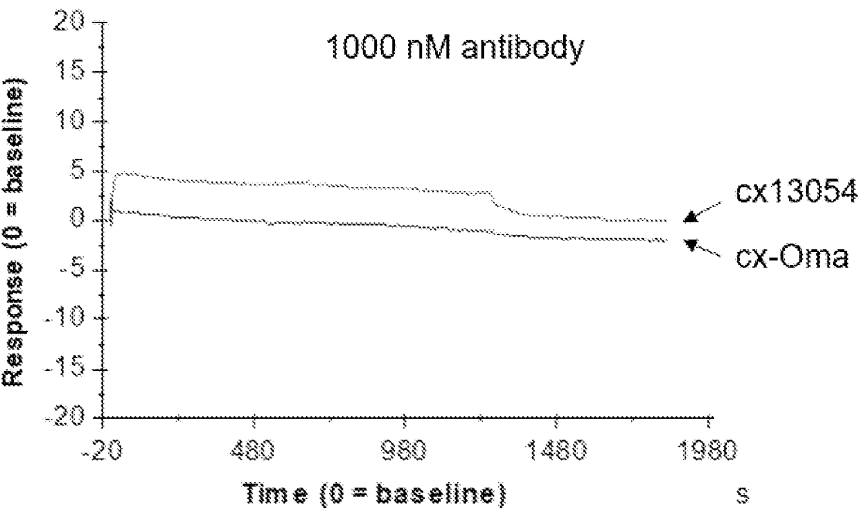


FIG. 11B

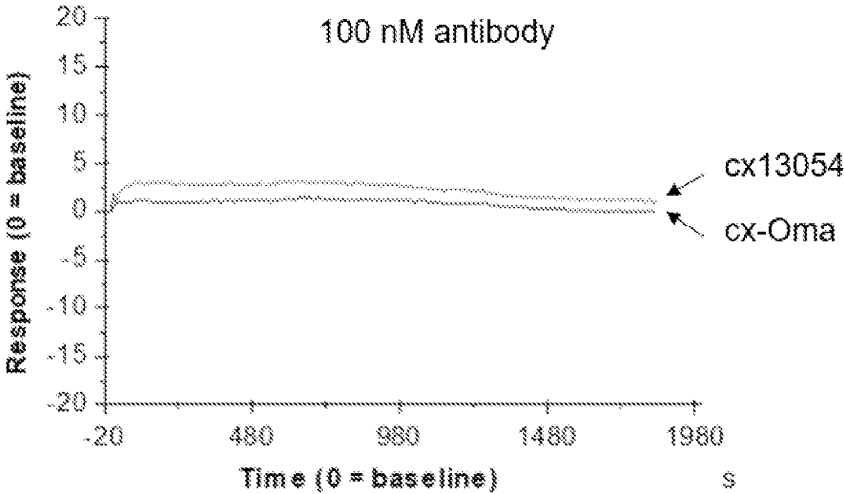


FIG. 11C

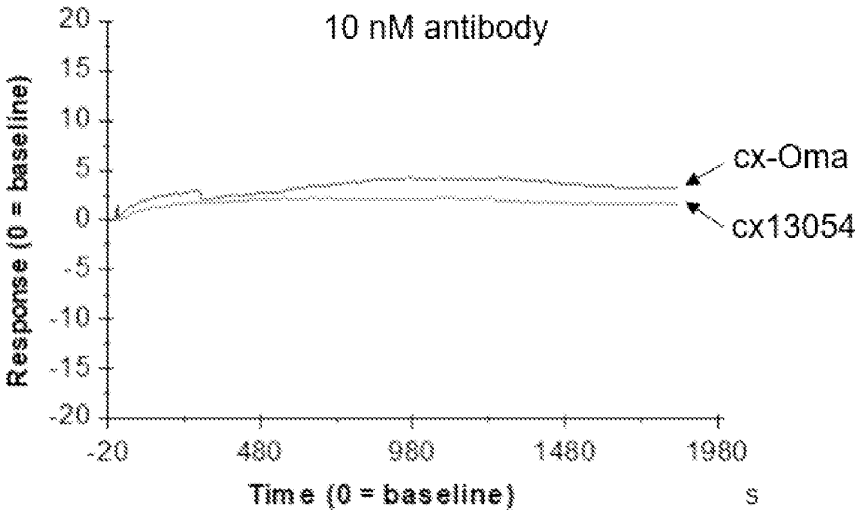


FIG. 11D

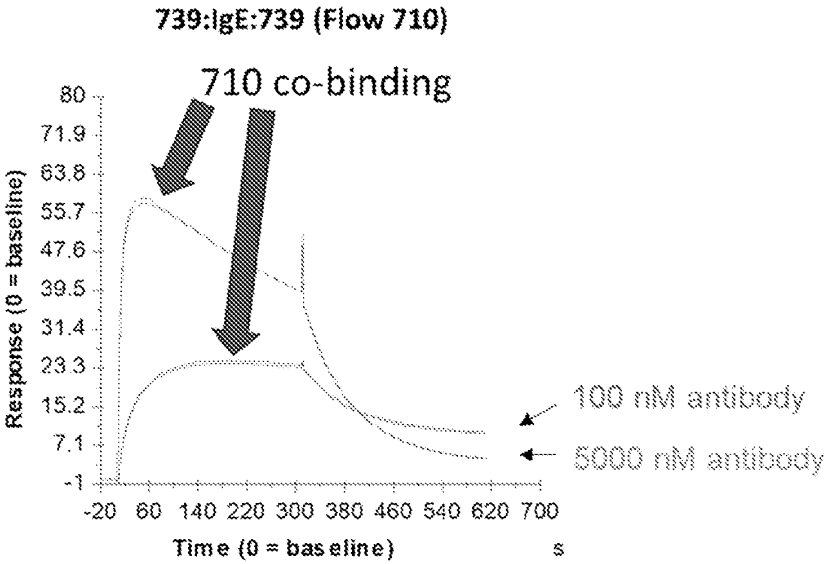


FIG. 12A

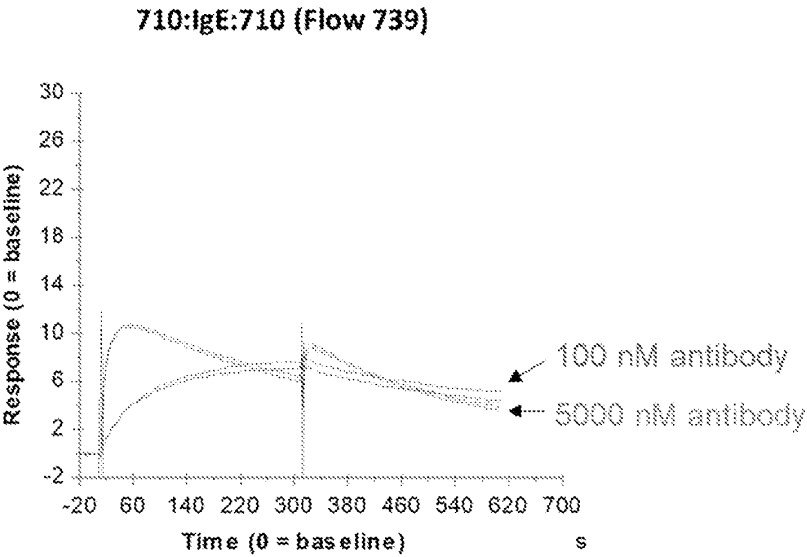


FIG. 12B

710:IgE:710 (Flow 739)

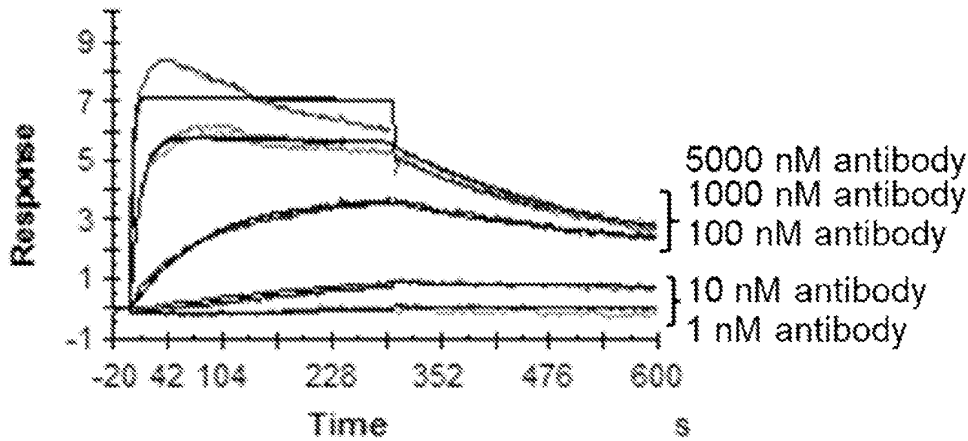


FIG. 12C

739:IgE:739 (Flow scLig)

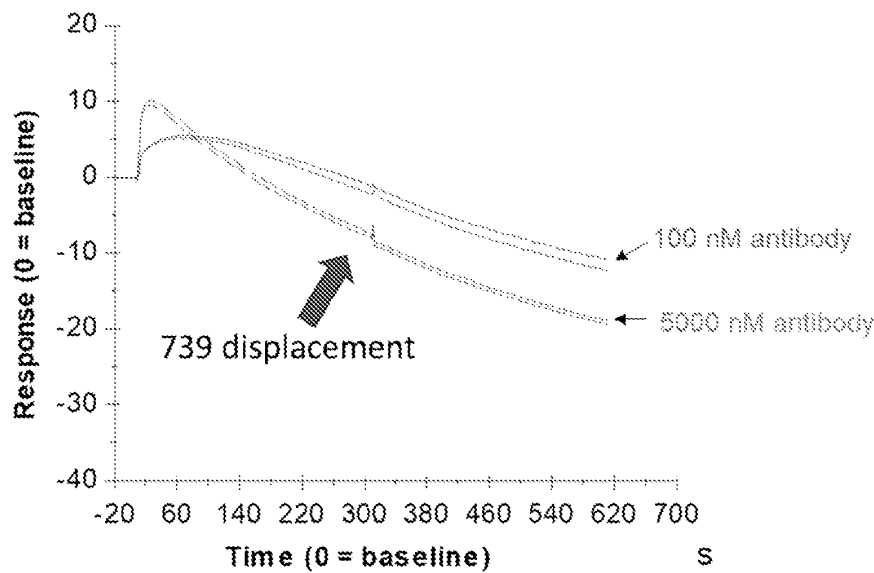


FIG. 13A

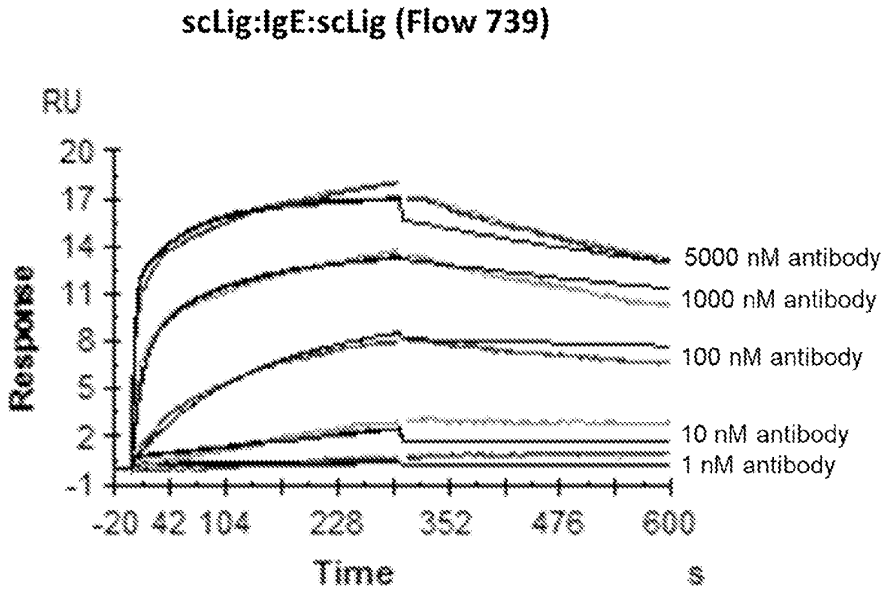


FIG. 13B

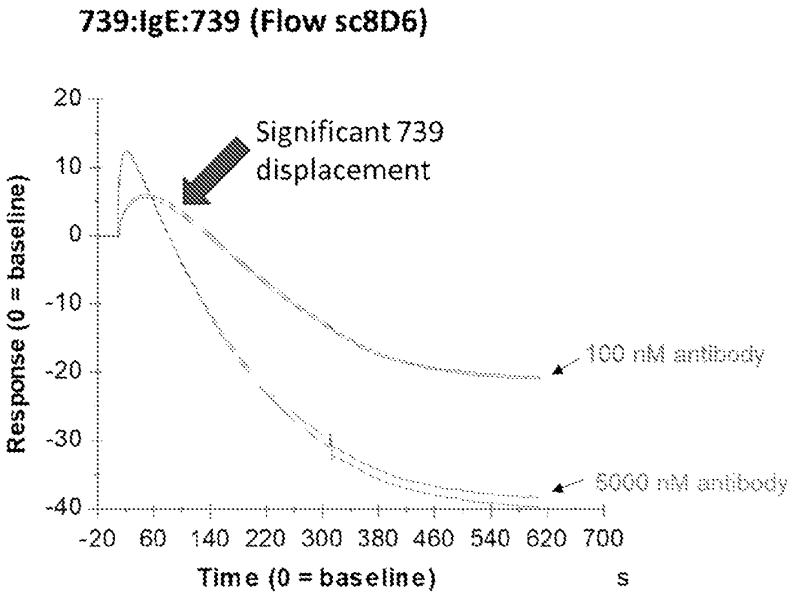


FIG. 14A

sc8D6:IgE:sc8D6 (Flow 739)

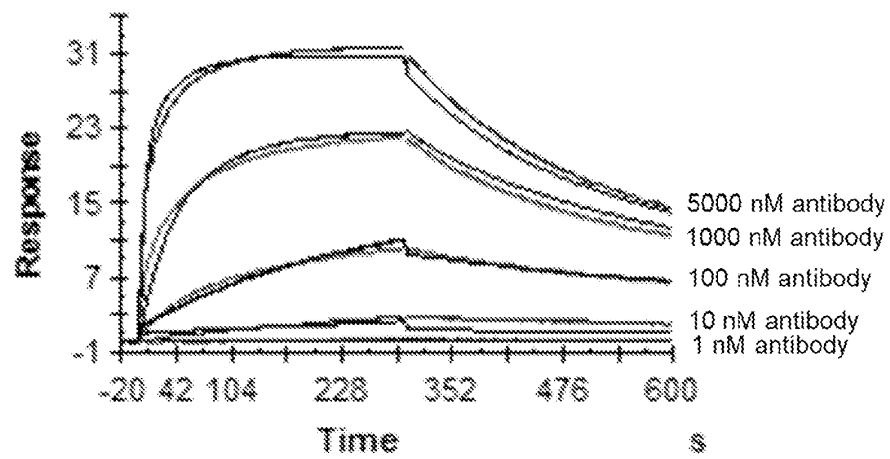


FIG. 14B

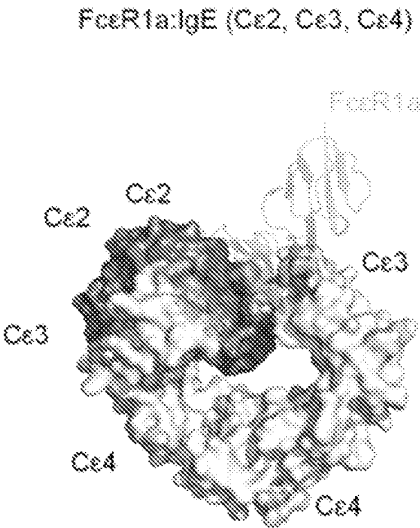


FIG. 15A

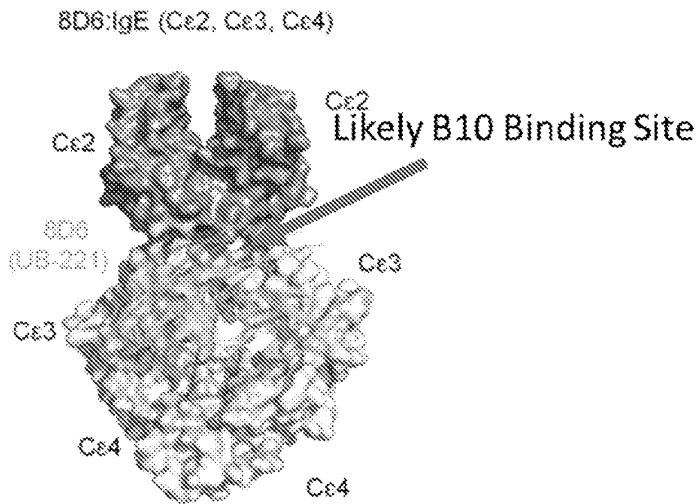


FIG. 15B

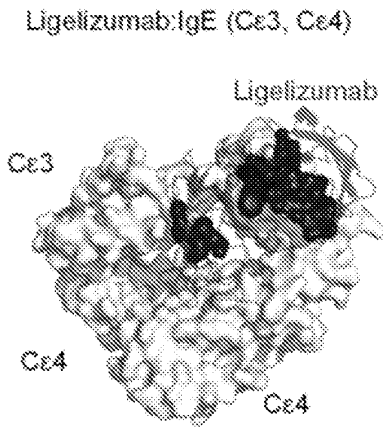


FIG. 15C

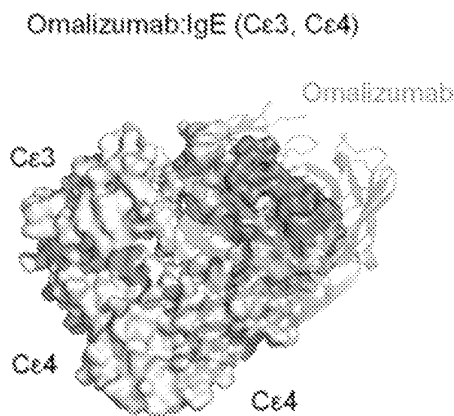


FIG. 15D

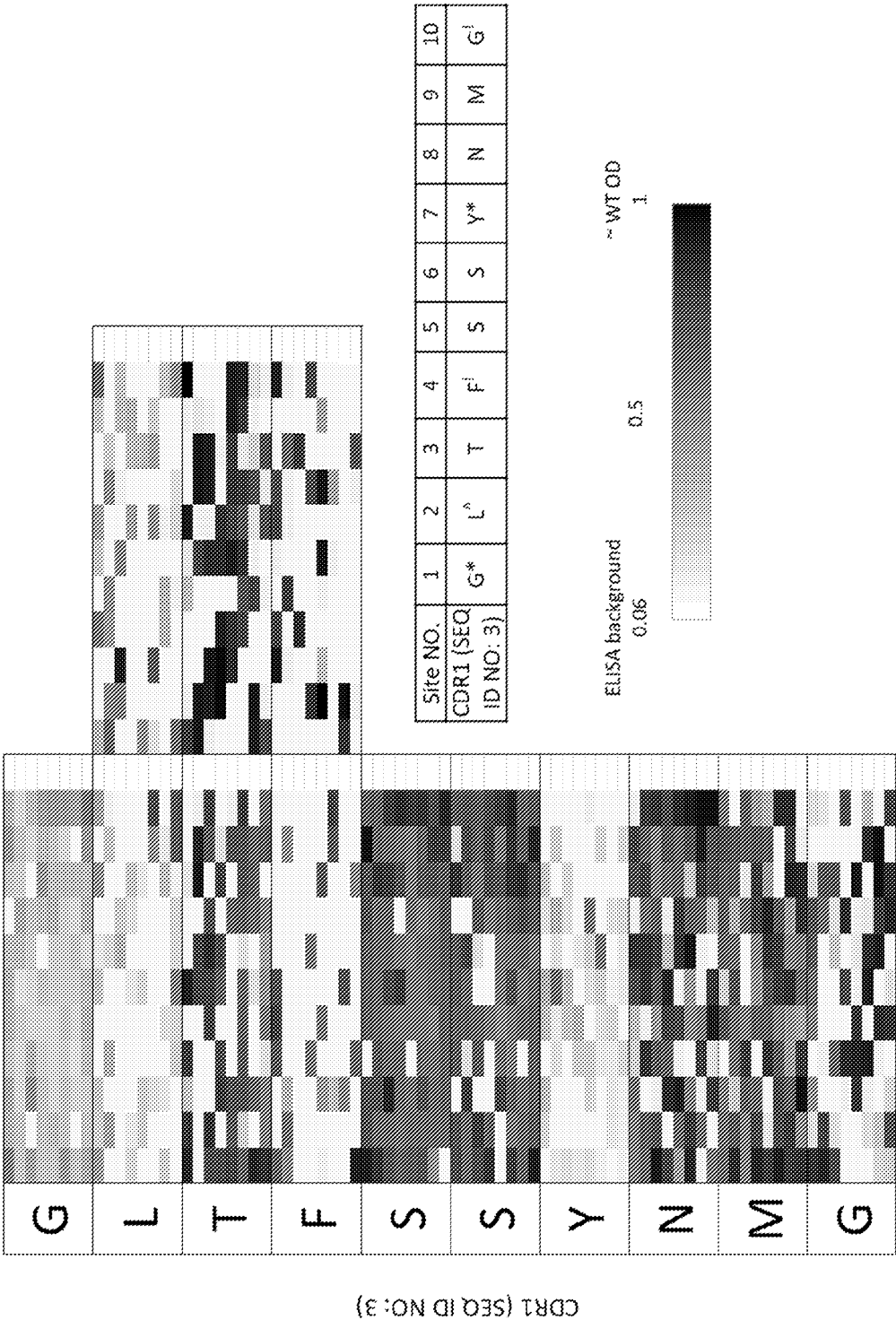
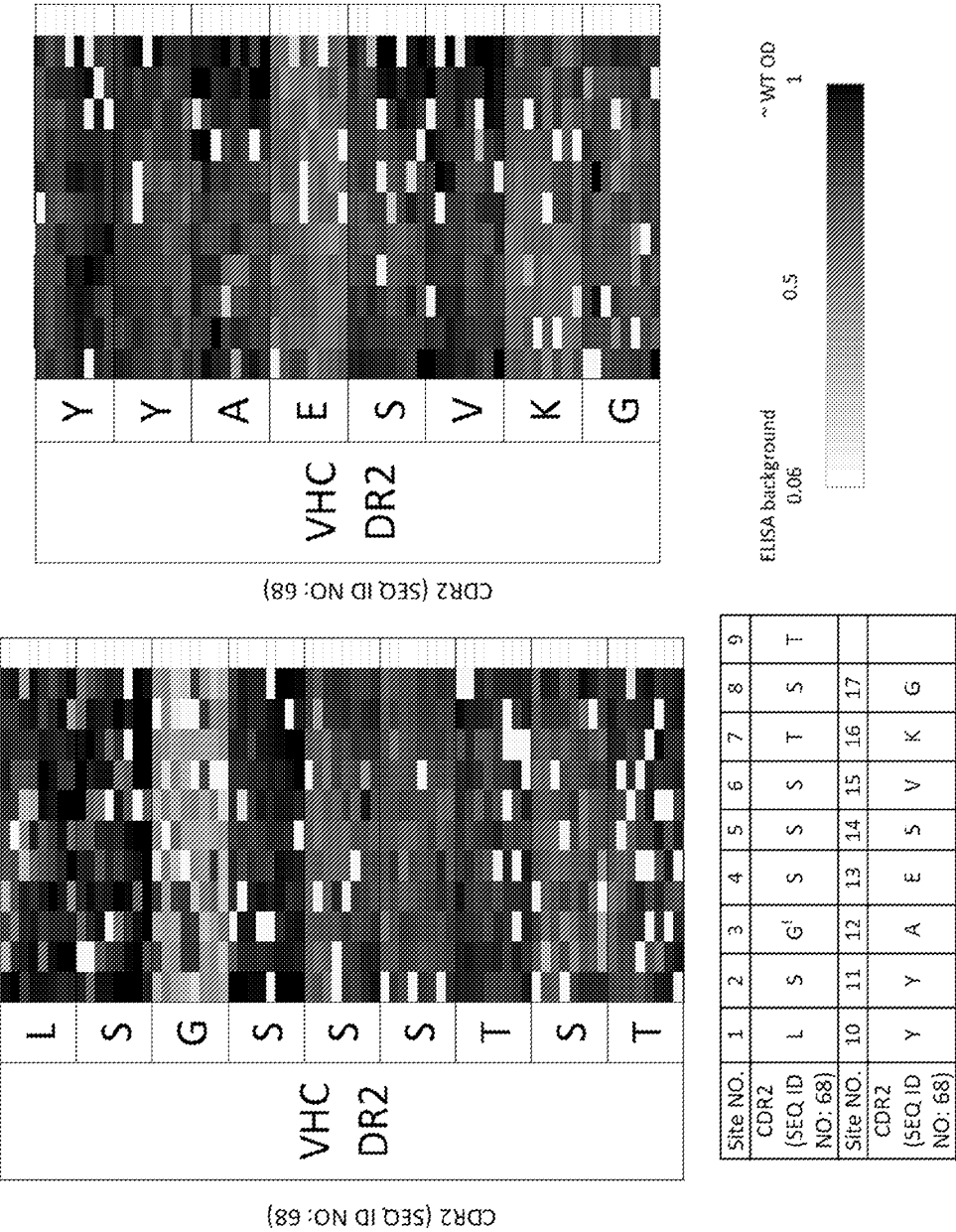


FIG. 16A



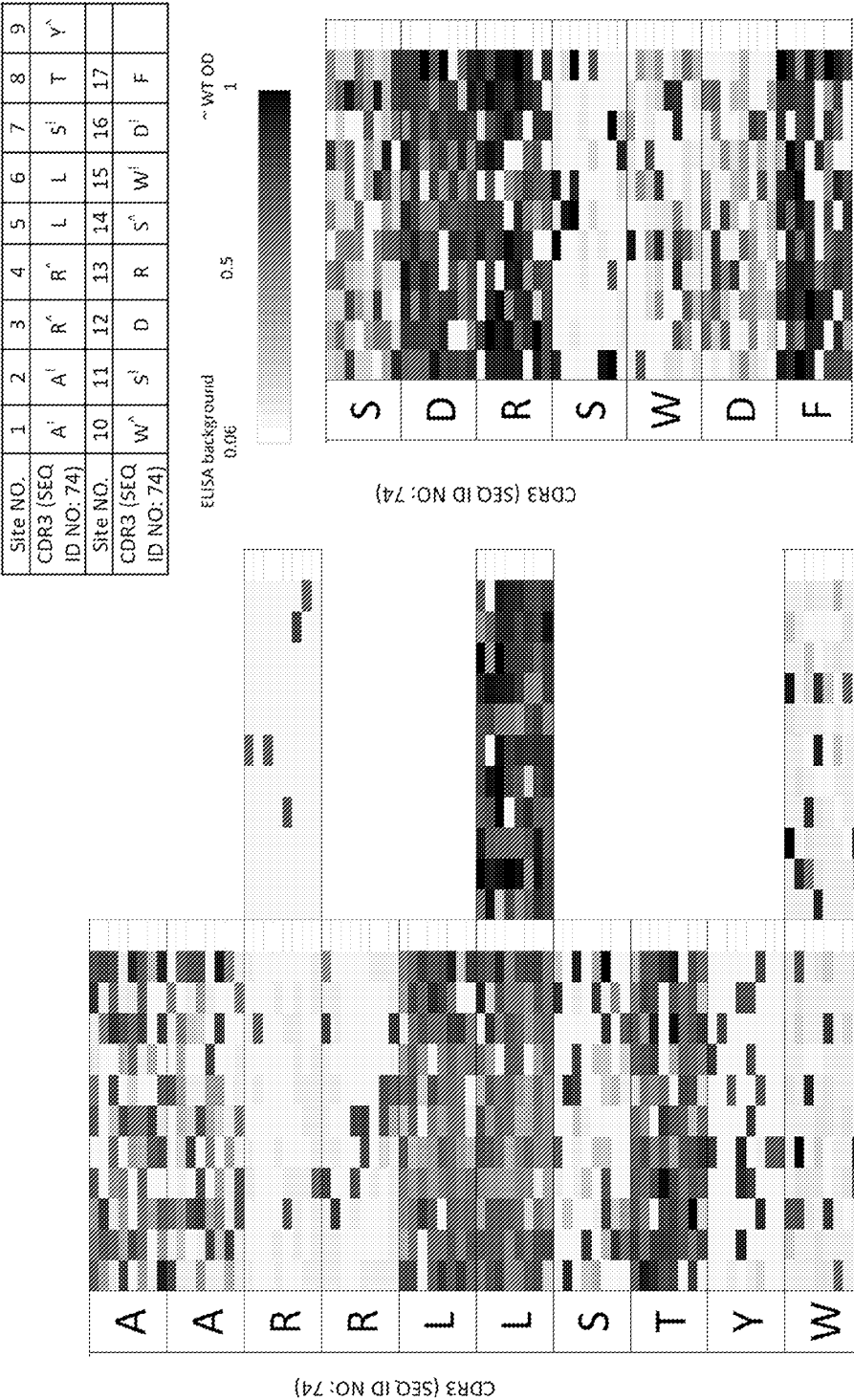


FIG. 16C

No.	Frequency	Site	Clone	VHCDR1 (SEQ ID NO: 3) GLTFSSYNMG	R1 Screening		Confirm OD450		WT
					OD450	WT	Duplicate1	Duplicate2	
1	1	2	2-1F11	.I.....	0.7545	0.8763	0.6469	0.6014	0.6254
2	1		2-2C3	.V.....	0.9138	0.9613	0.6205	0.6196	0.5814
3	1	3	3-1A1	.V.....	0.8964		0.6066	0.5715	
4	1		3-1B9	.N.....	0.9452	1.0273	0.585	0.6337	
5	1		3-1B10	.K.....	0.9036		0.5699	0.5935	
6	1		3-1H1	.I.....	0.857		0.5672	0.5592	
7	2	4	4-1F10	.Y.....	0.7085		0.697	0.545	
8	1		4-1F11	.P.....	0.7981		0.5822	0.4827	
9	5		4-2E2	.G.....	1.0497	1.0306	0.5785	0.586	
10	1		5A1	.K.....	0.9143	0.9292	0.6093	0.5731	
11	1	5	5A10	.A.....	0.9603		0.5539	0.549	
12	1		5C3	.D.....	0.8974		0.5457	0.5557	
13	1		5H11	.R.....	0.8931		0.5449	0.5499	
14	1		6A9	.E.....	0.8515	1.0778	0.4751	0.4883	
15	2	6	6C2	.Q.....	0.8262		0.5339	0.5265	
16	1		6E11	.T.....	0.8165		0.454	0.4676	
17	1		6F11	.R.....	0.8853		0.4175	0.4016	
18	3		6G9	.A.....	0.8749		0.5559	0.5117	
19	2	8	6H1	.P.....	0.9082		0.4871	0.5301	
20	2		8F11	.T.....	0.9224	0.22665	0.5196	0.5587	
21	2		8G10	.S.....	0.9166		0.5342	0.5525	
22	5		8H11	.R.....	0.9695		0.5714	0.5676	
23	1	9	9B1	.V.....	0.8787	0.859	0.4523	0.4539	
24	1		9D1	.I.....	0.9053		0.4355	0.4424	
25	3		9E8	.L.....	0.8968		0.5218	0.5388	
26	1		9F1	.S.....	0.9211		0.4983	0.4672	
27	1	10	9G9	.T.....	0.8865		0.5353	0.5236	
28	1		9H9	.F.....	0.8803		0.4902	0.4999	
29	2		10E3	.S.....	0.8462	0.7817	0.5078	0.494	
30	2		10G10	.A.....	0.9664		0.4839	0.4793	

FIG. 16D

No.	Frequency	Site	Clone	VHCDR3 (SEQ ID NO: 74) AARRLLSTYWSDRSWDF	R1 Screening		Confirm OD450	
					OD450	WT	Duplicate1	Duplicate2
1	1	28	28H1	S.....	0.9275	1.1002	0.4714	0.4922
2	1	32	32F11	R.....	0.9243	0.8958	0.5569	0.5567
3	2	33	33-2A2	K.....	1.0106	1.0162	0.5567	0.5642
4	1		33-2C4	F.....	1.0032		0.5145	0.5235
5	1		33-2C5	H.....	1.0108		0.525	0.5727
6	3	35	35G3	R.....	1.075	1.0009	0.5926	0.6117
7	1	39	39C11	M.....	1.0031	1.0865	0.5624	0.5846
8	1		39E11	H.....	1.0055		0.5501	0.5339
9	2	44	44A11	K.....	1.1391	1.102	0.661	0.6545
10	1		44C1	M.....	1.0635		0.5563	0.5374

FIG. 16E

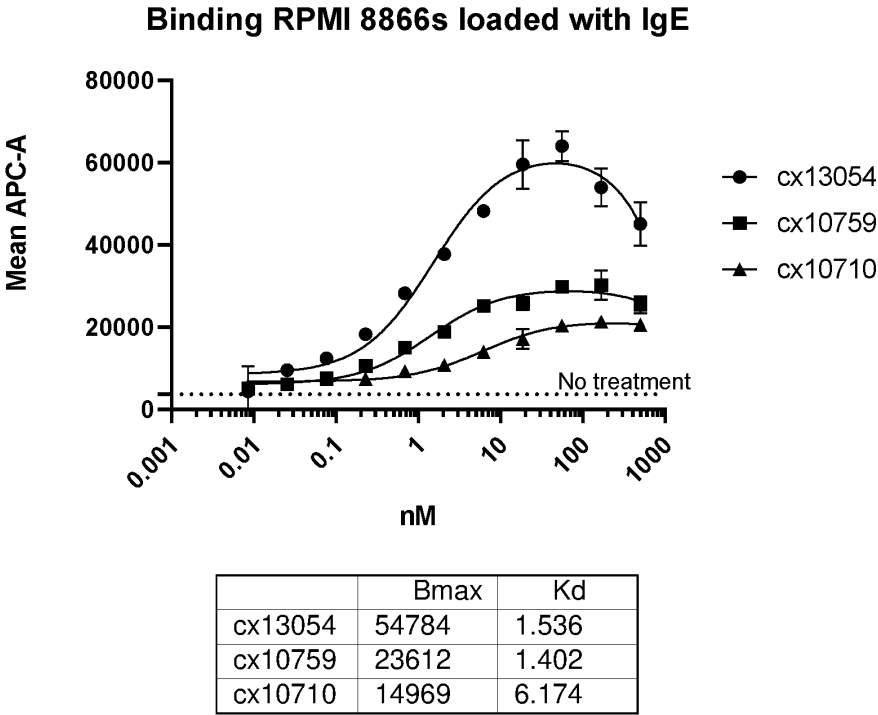


FIG. 17A

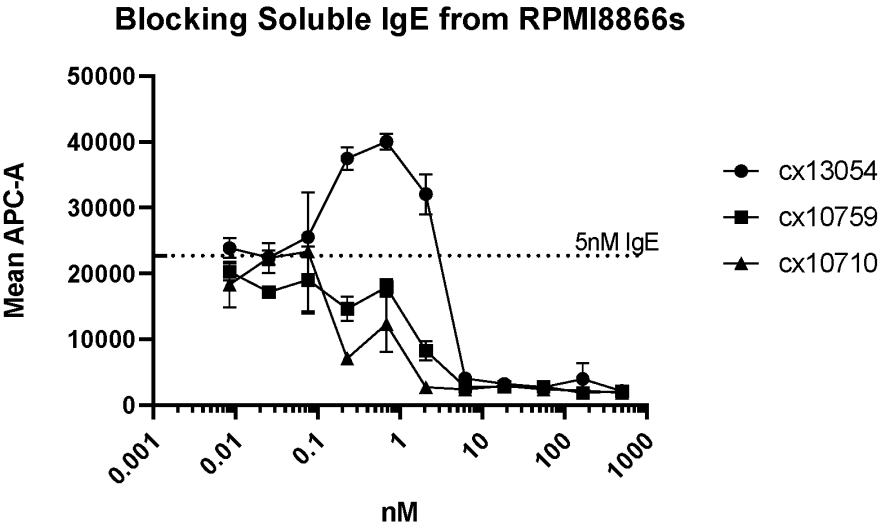


FIG. 17B

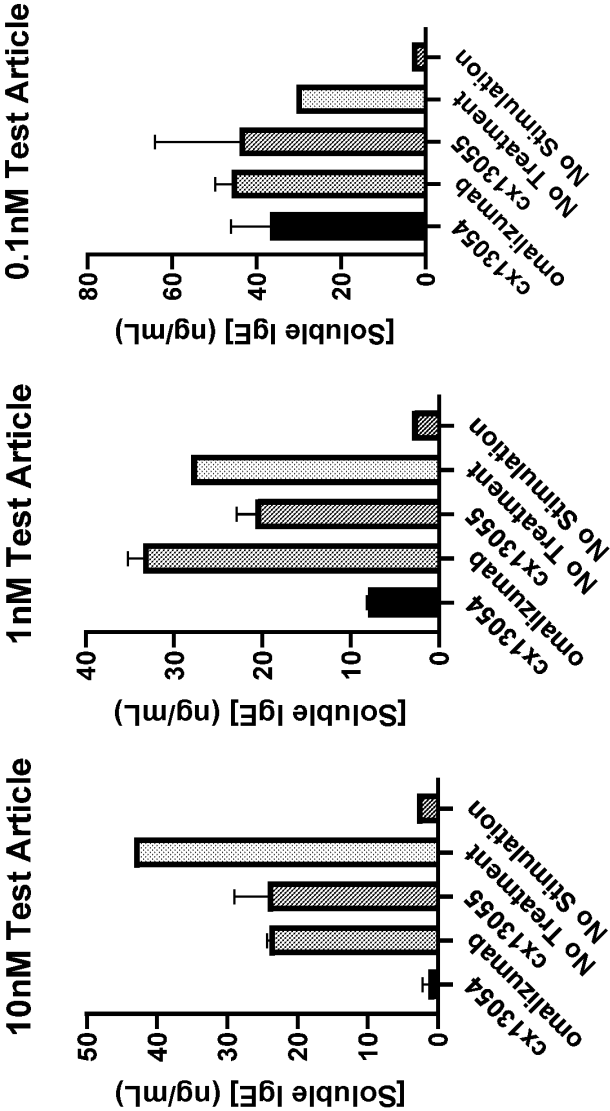


FIG. 18