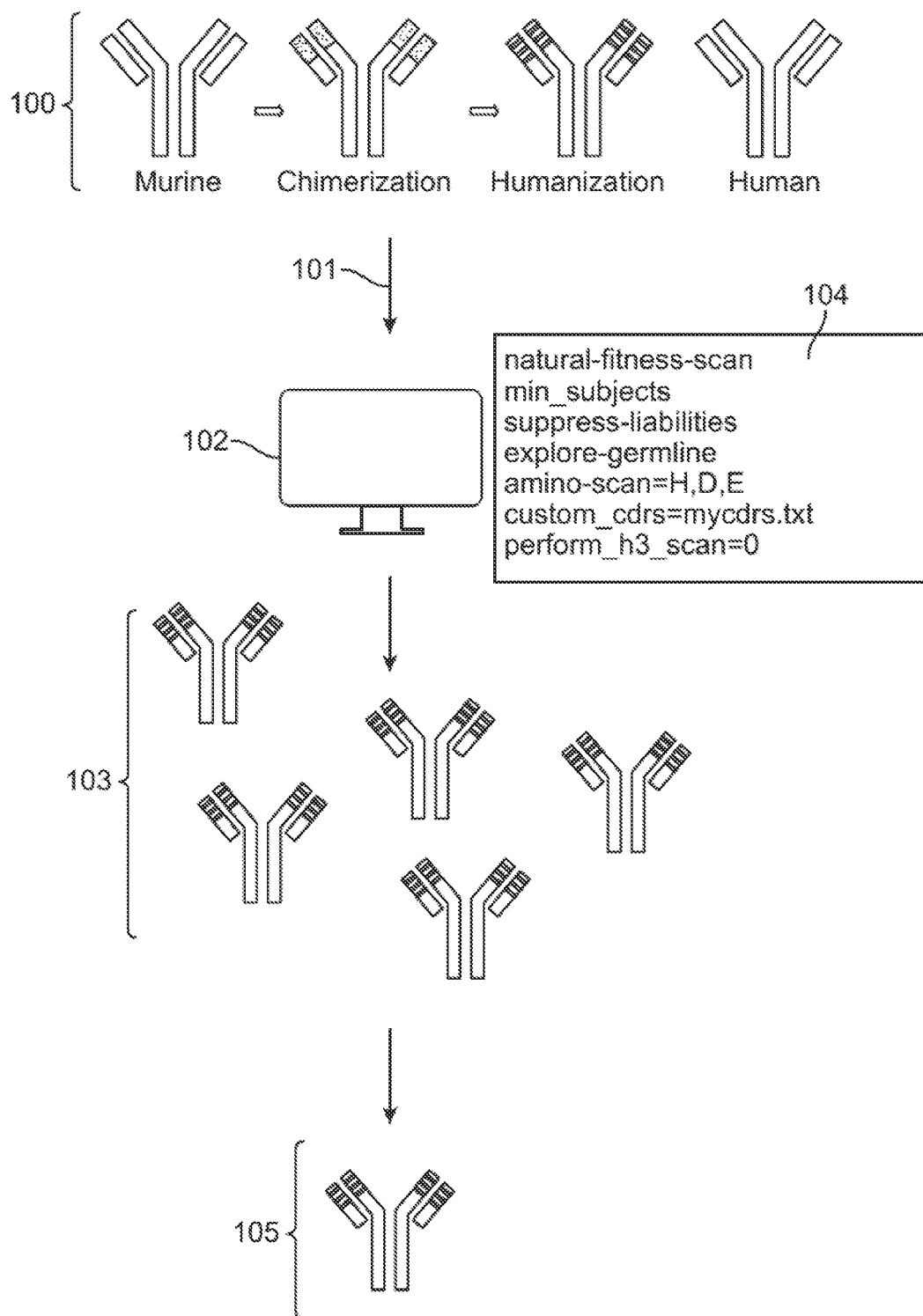


**FIG. 1**

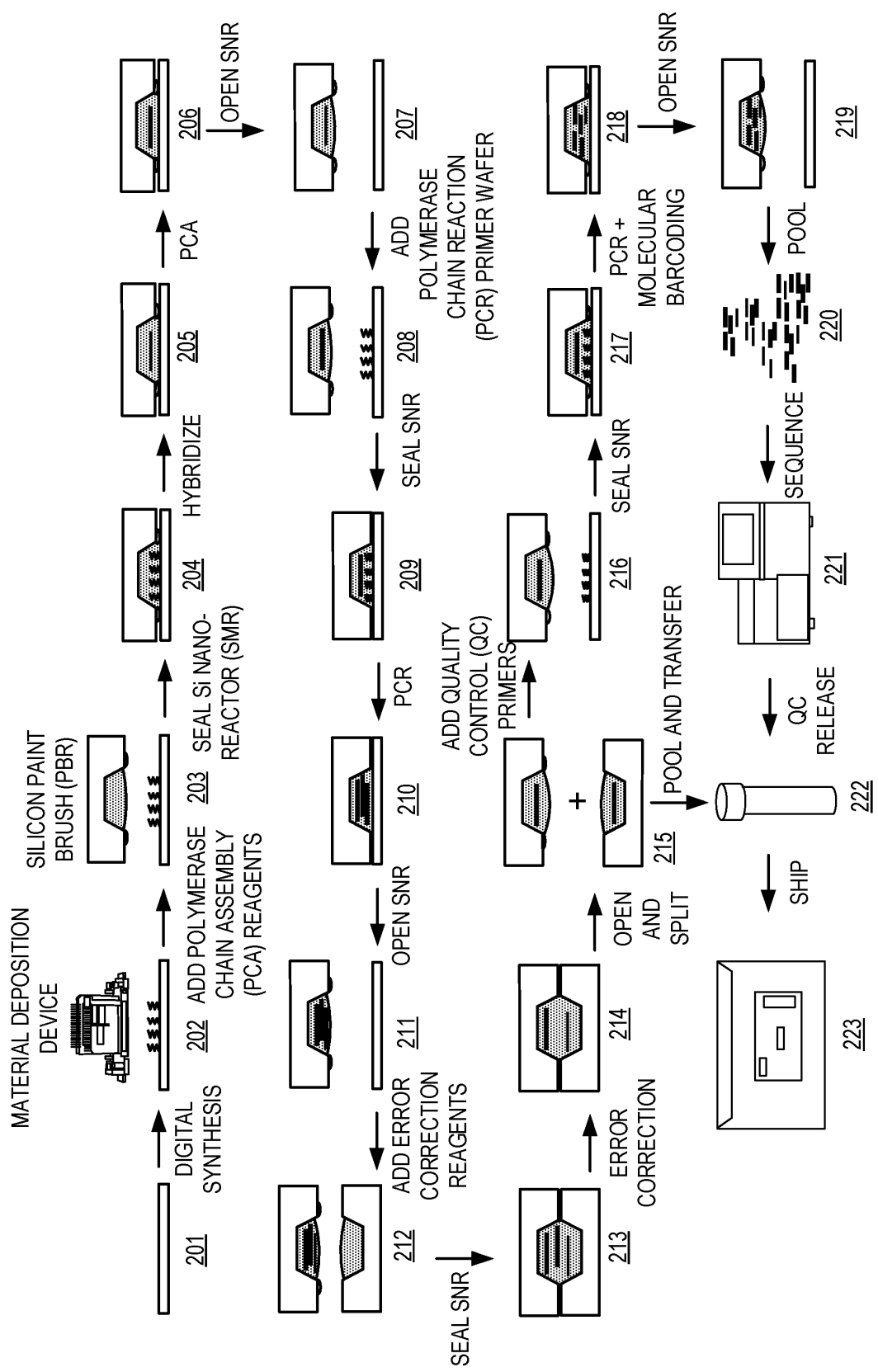


FIG. 2

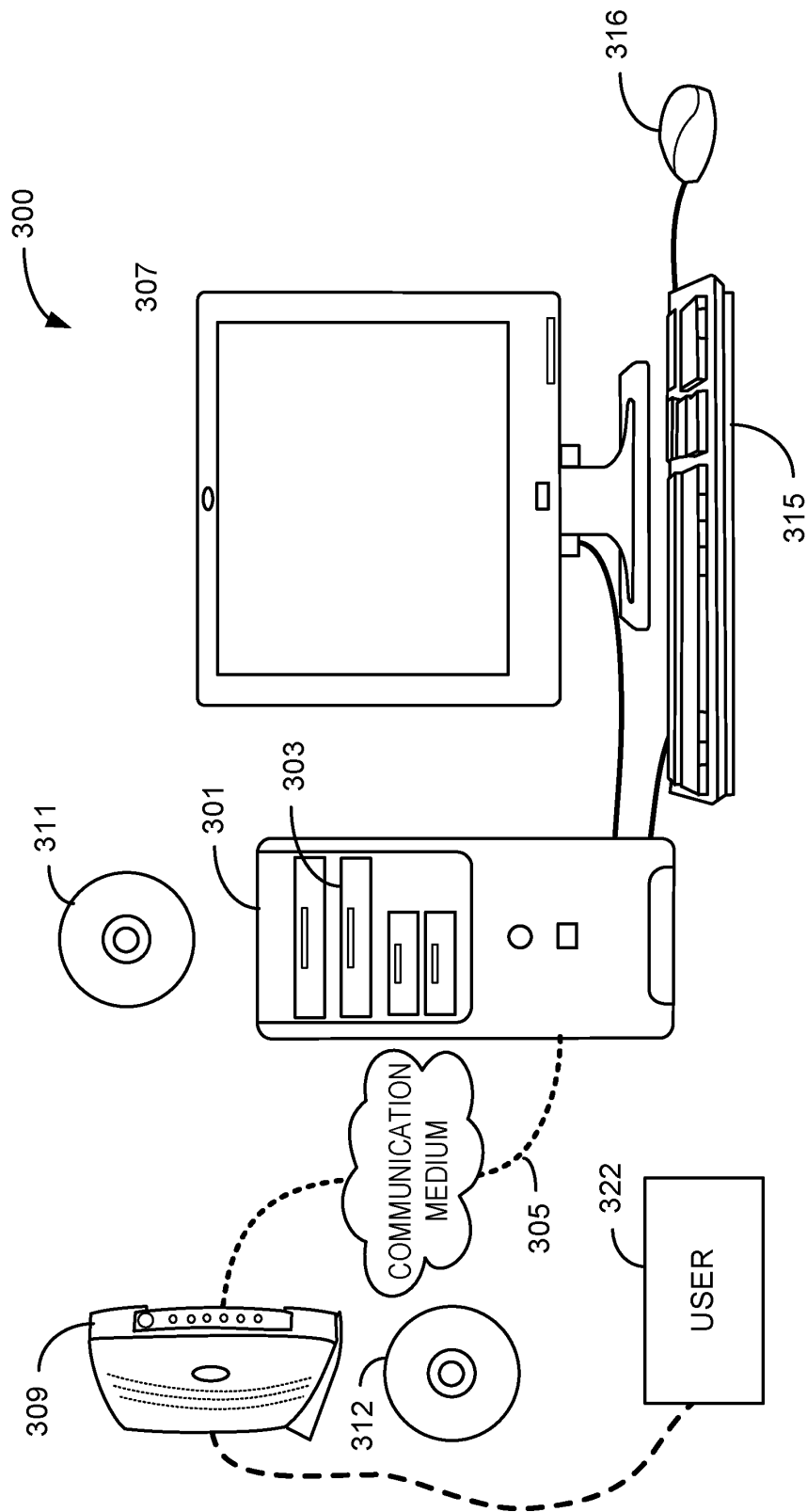


FIG. 3

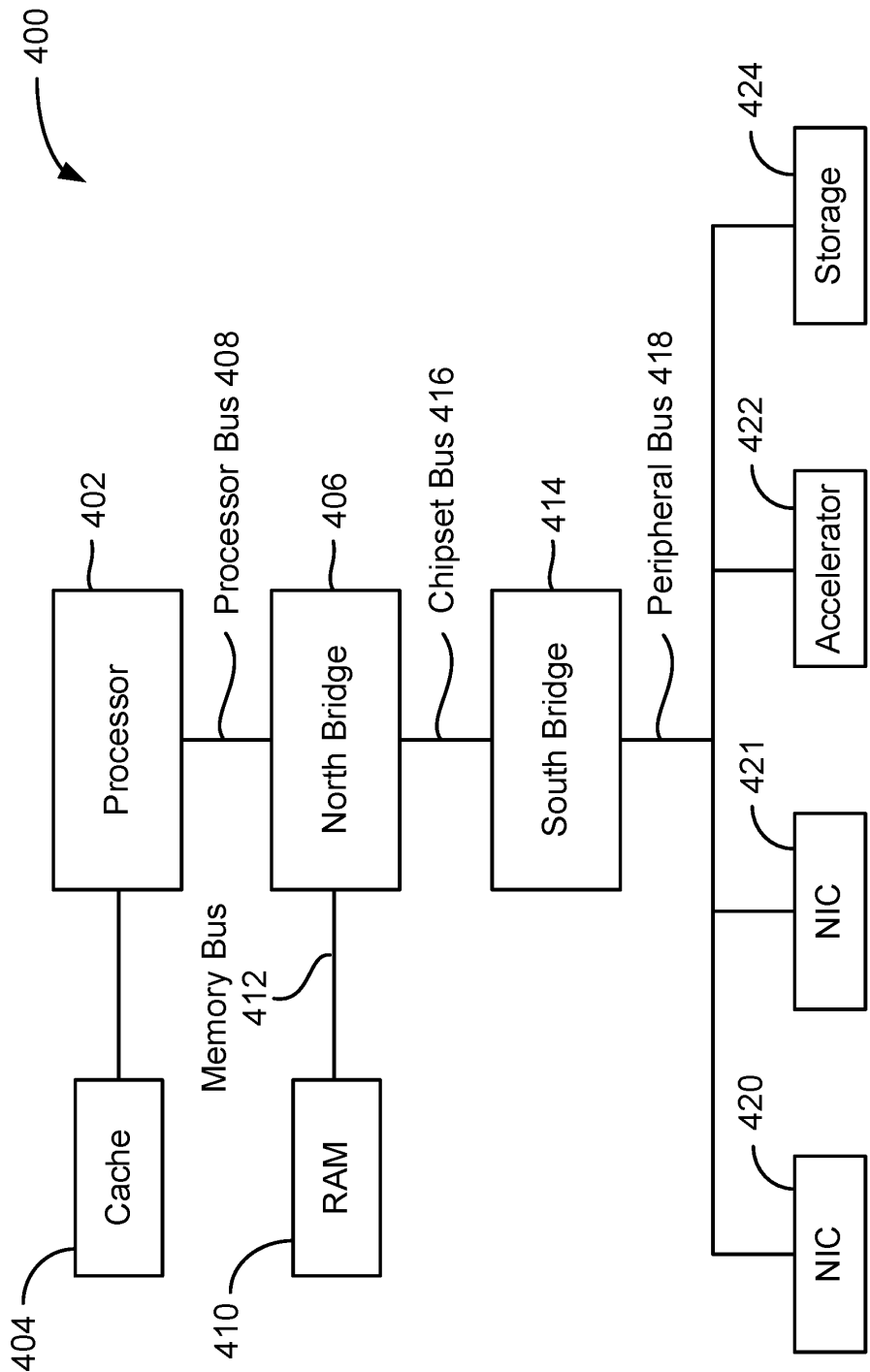


FIG. 4

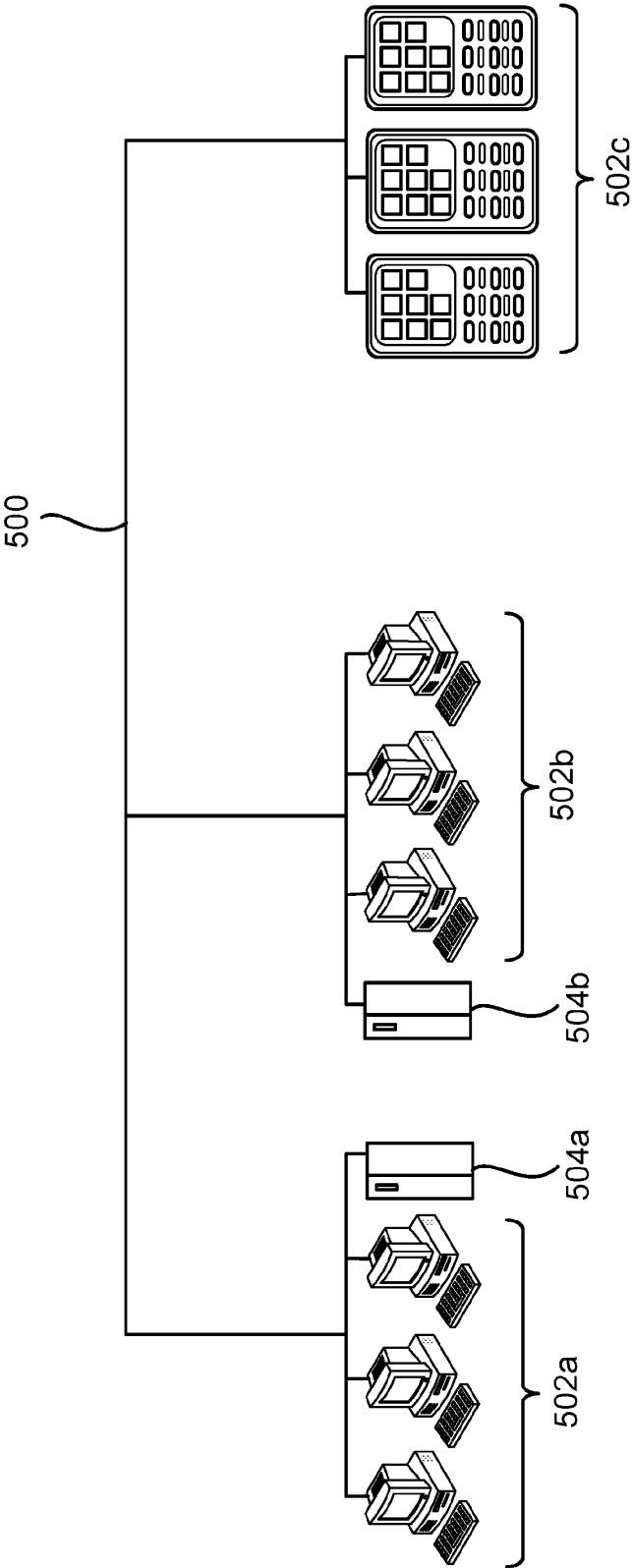
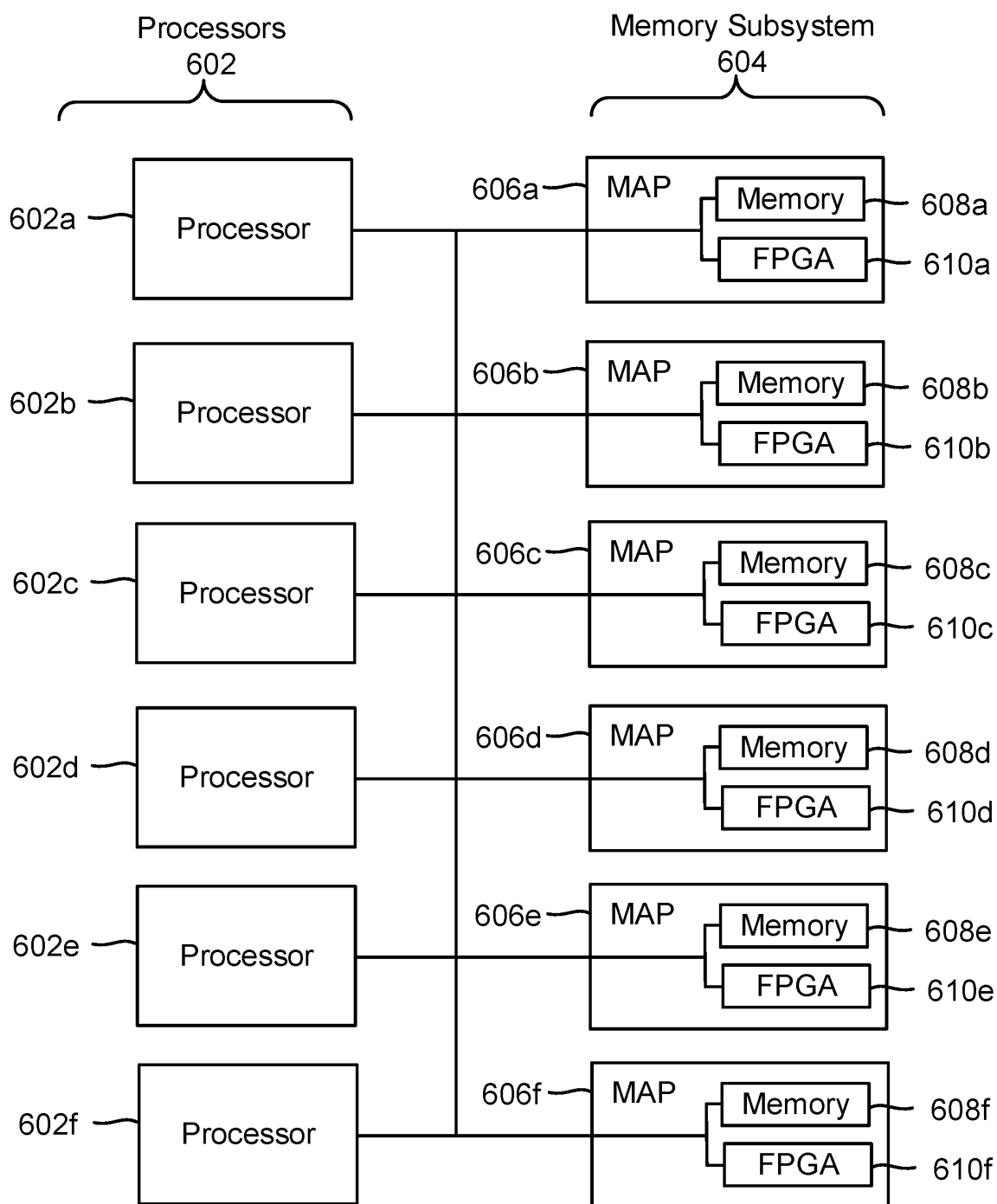


FIG. 5

**FIG. 6**

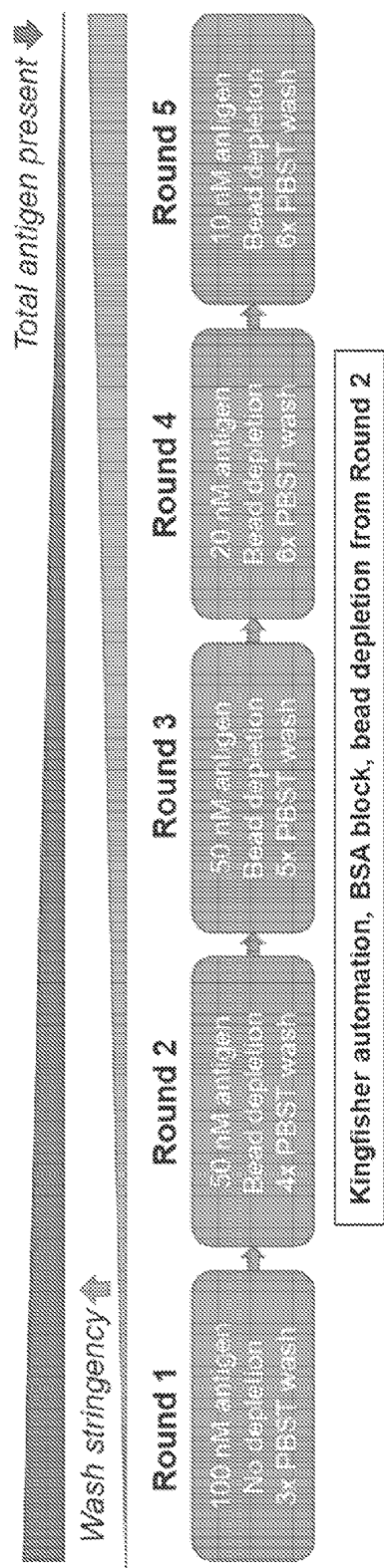


FIG. 7

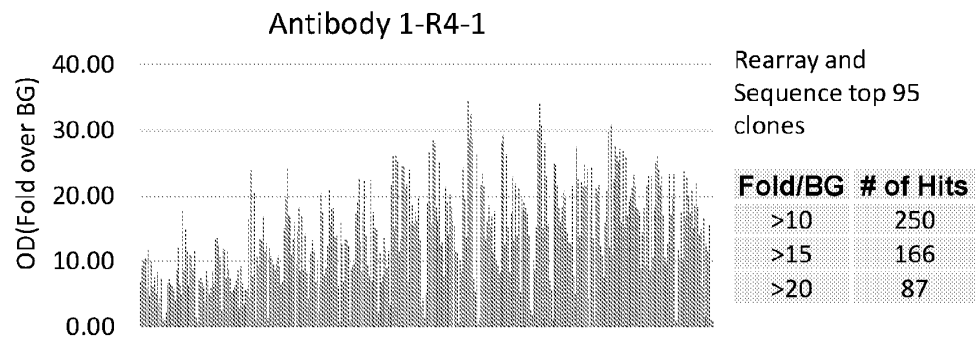


FIG. 8A

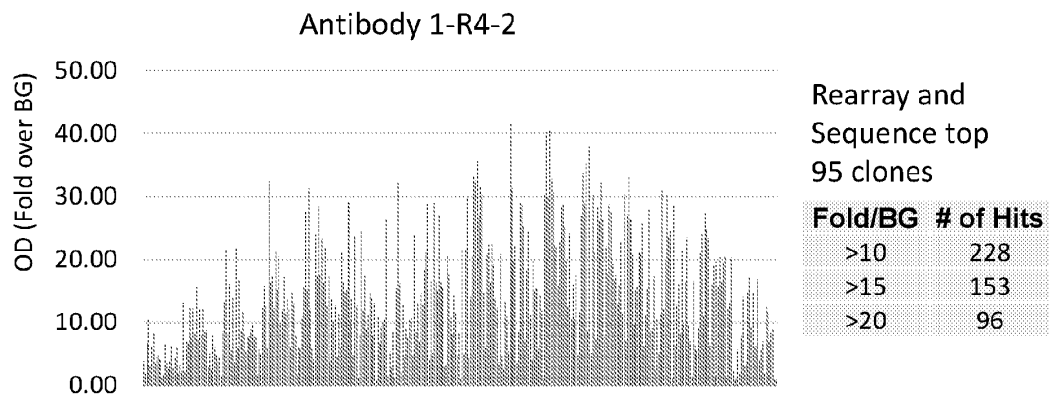


FIG. 8B

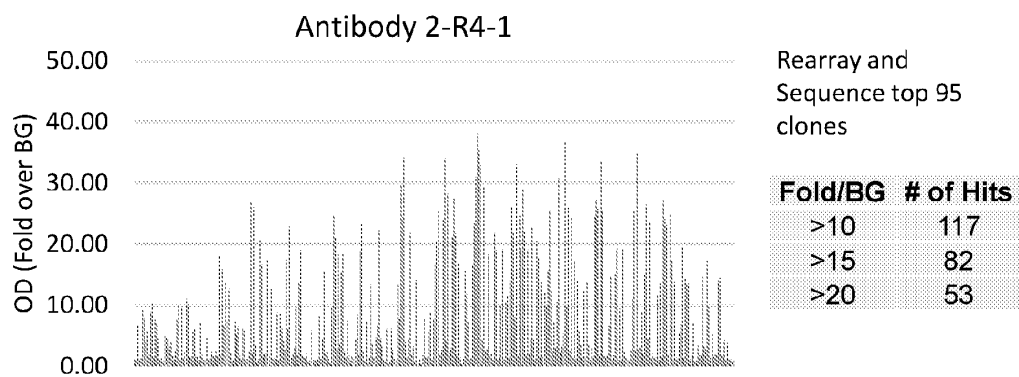


FIG. 8C

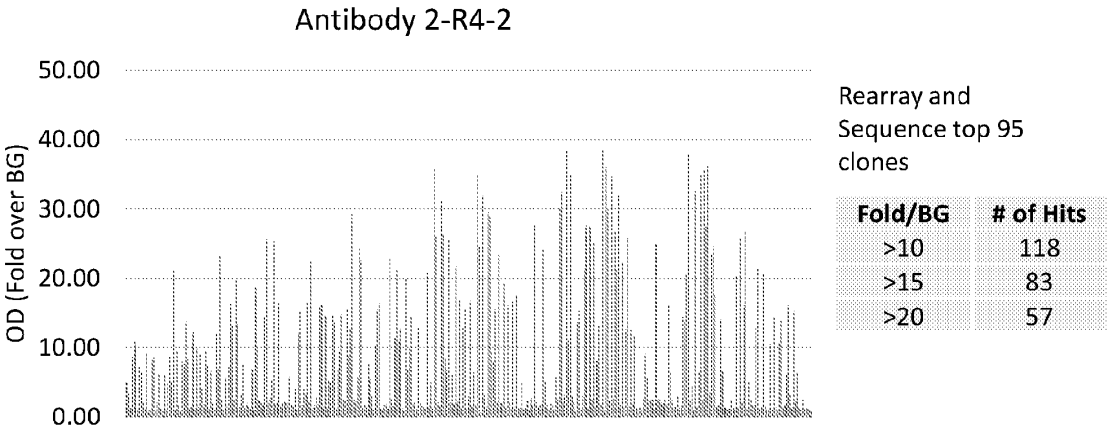


FIG. 8D

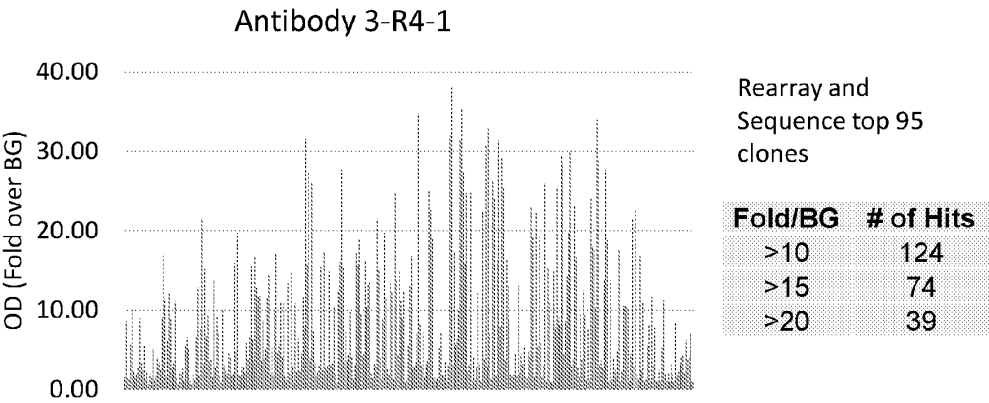


FIG. 9A

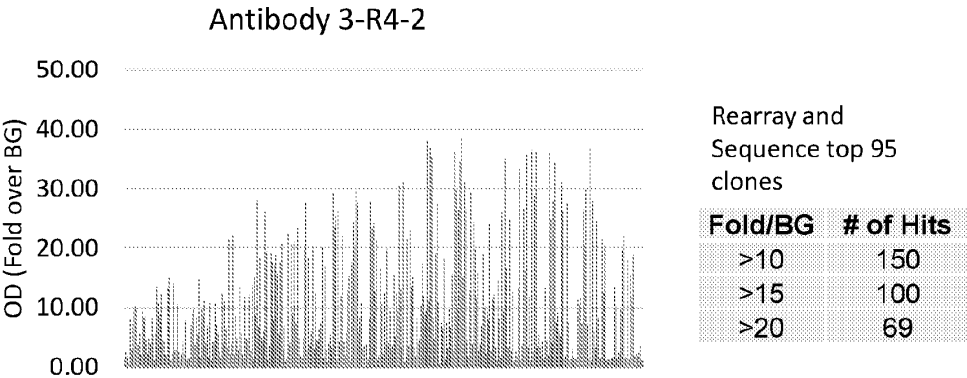


FIG. 9B

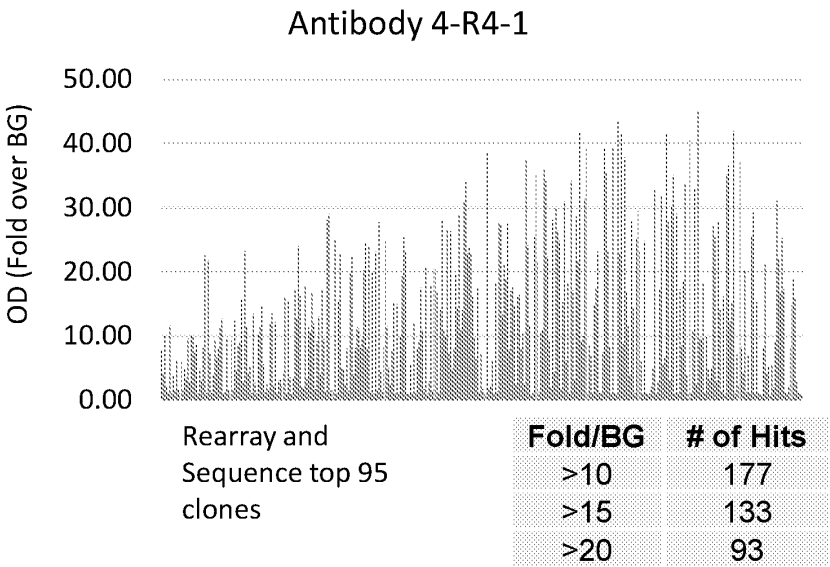


FIG. 9C

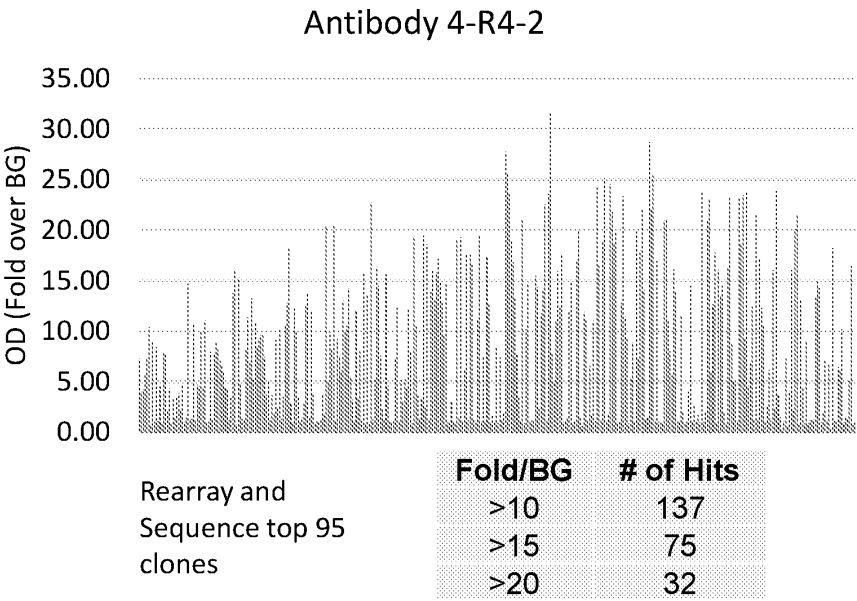
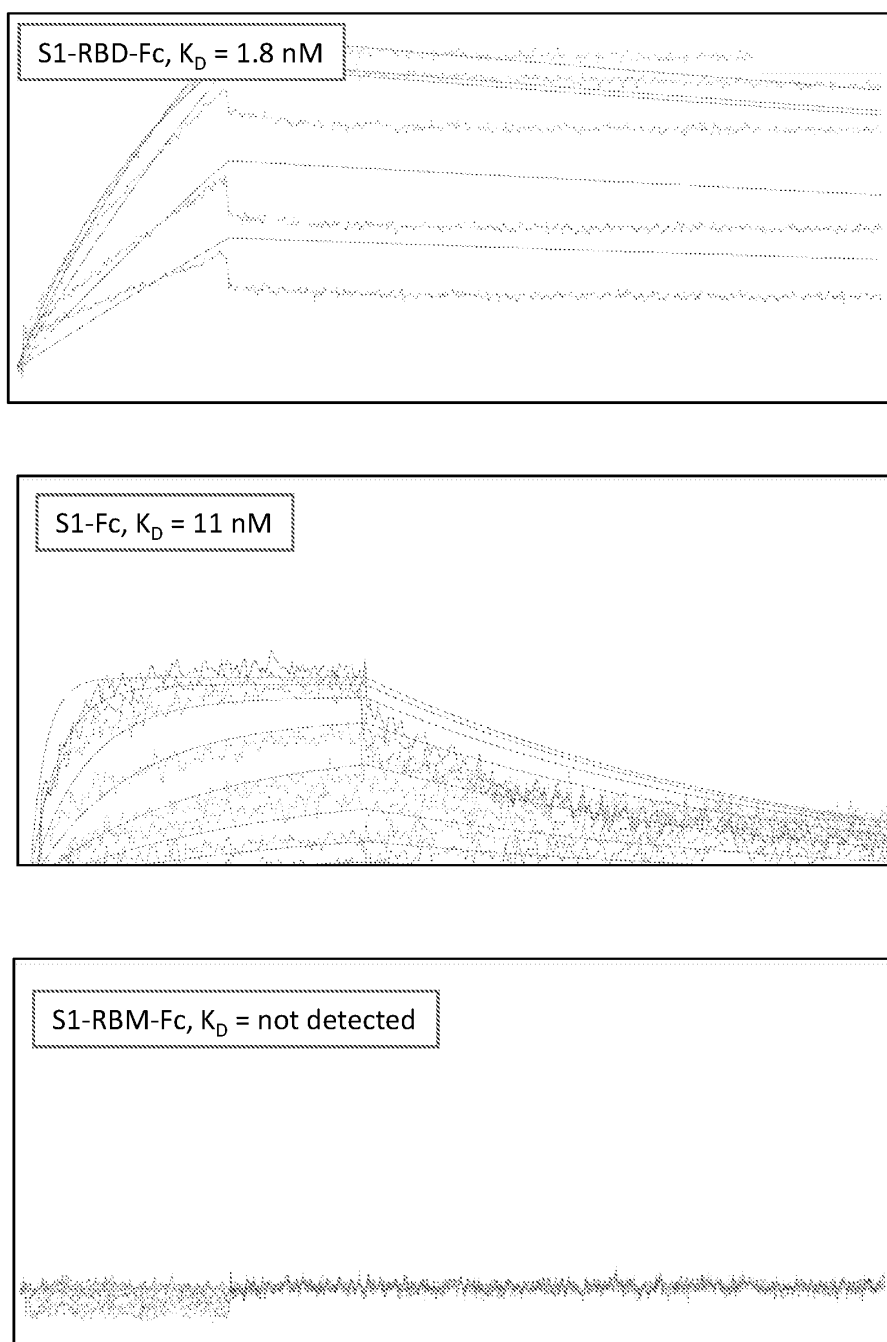


FIG. 9D

**FIG. 10**

S1, Variant 2-6

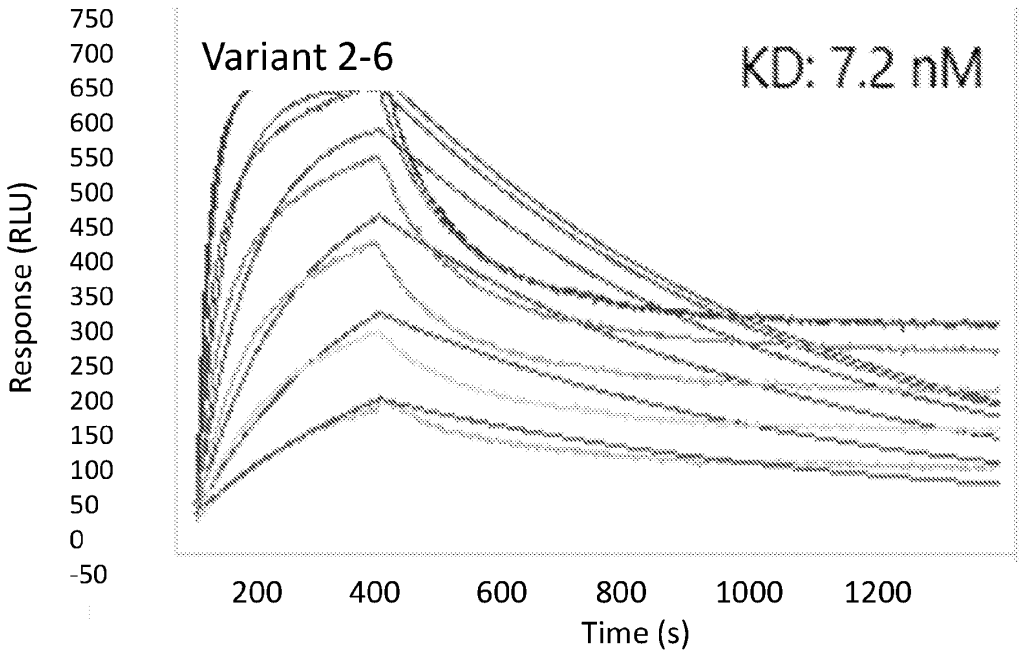


FIG. 11A

S Trimer Variant 2-6

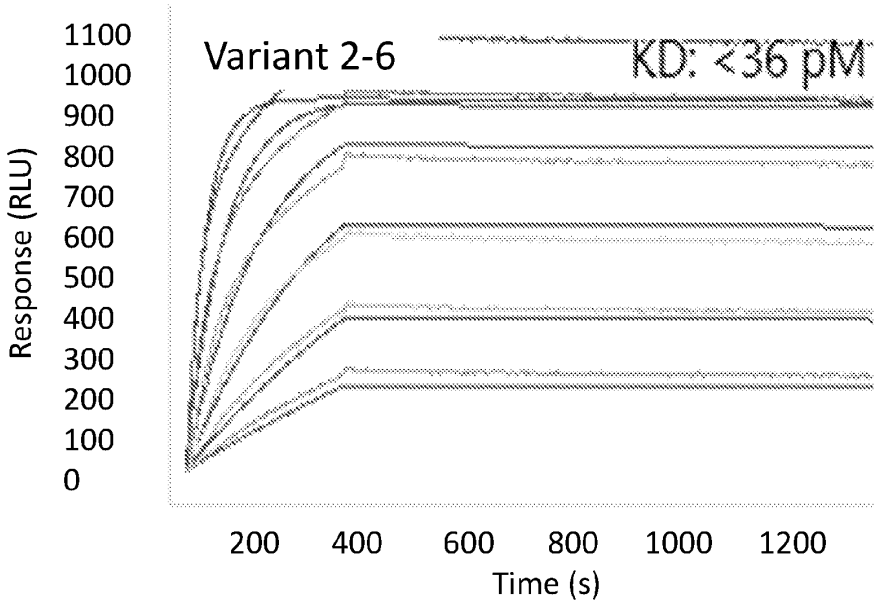
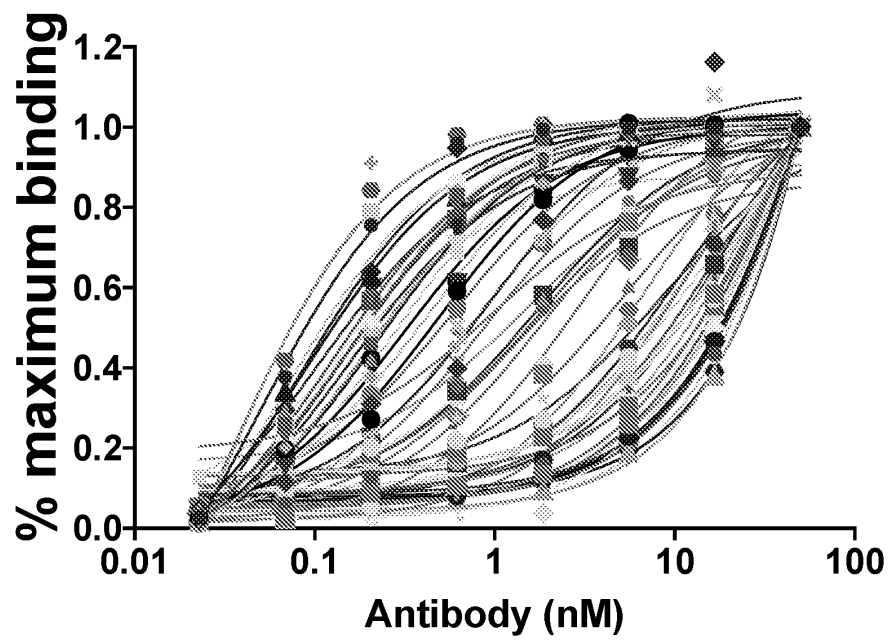


FIG. 11B

**FIG. 12**

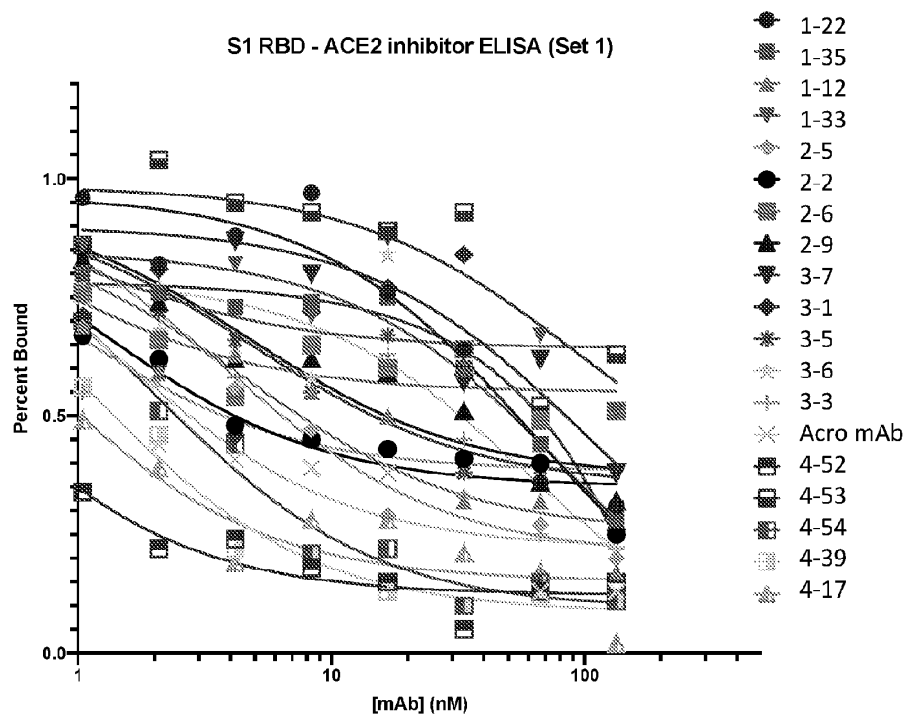


FIG. 13A

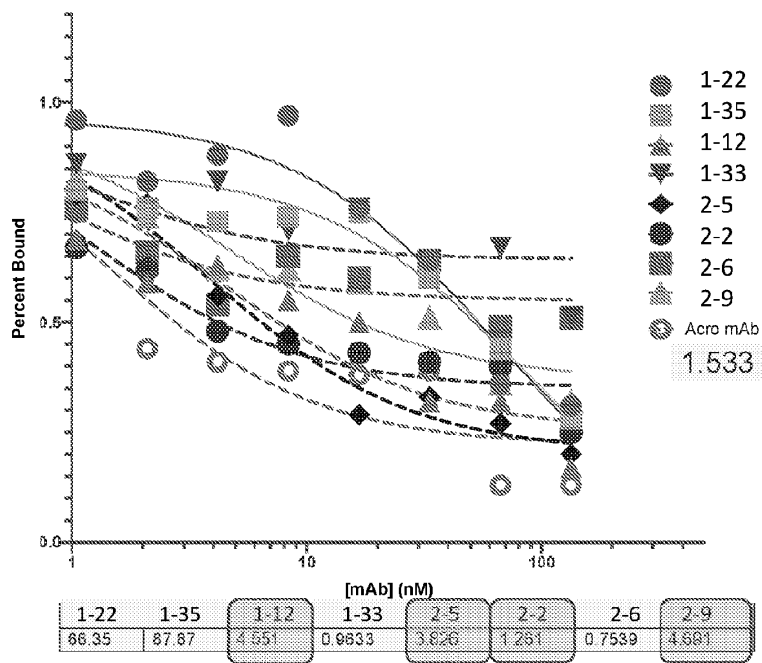
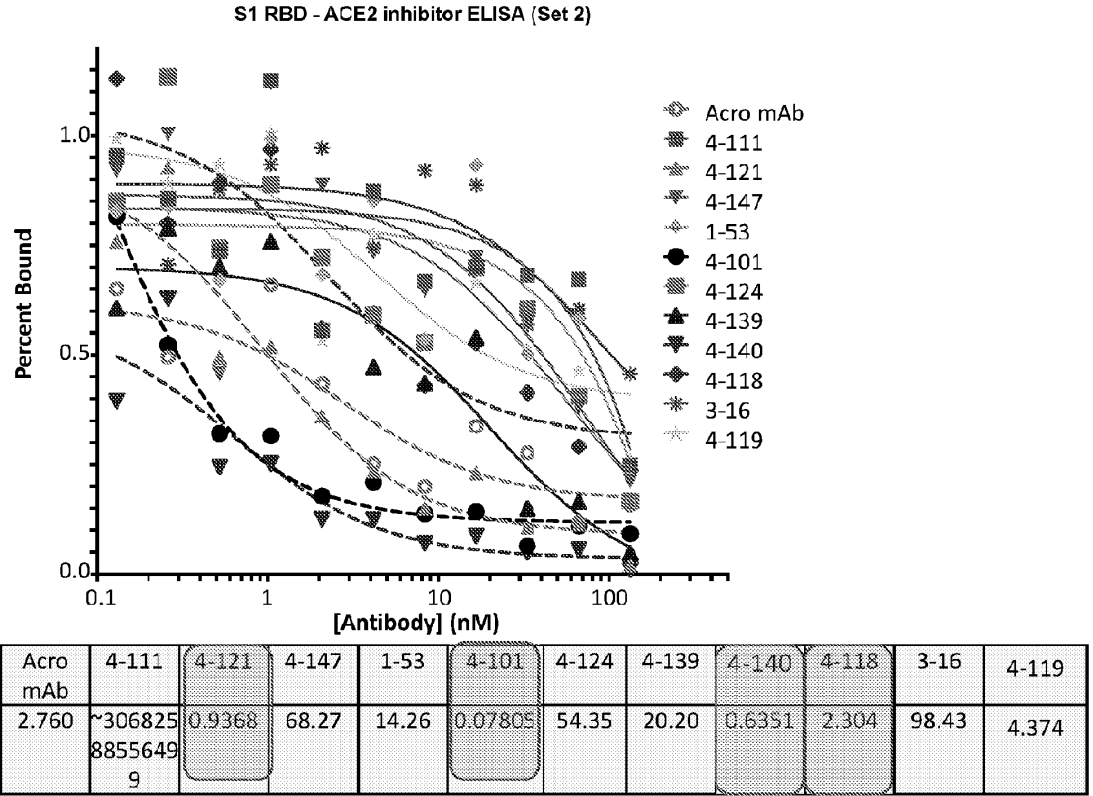
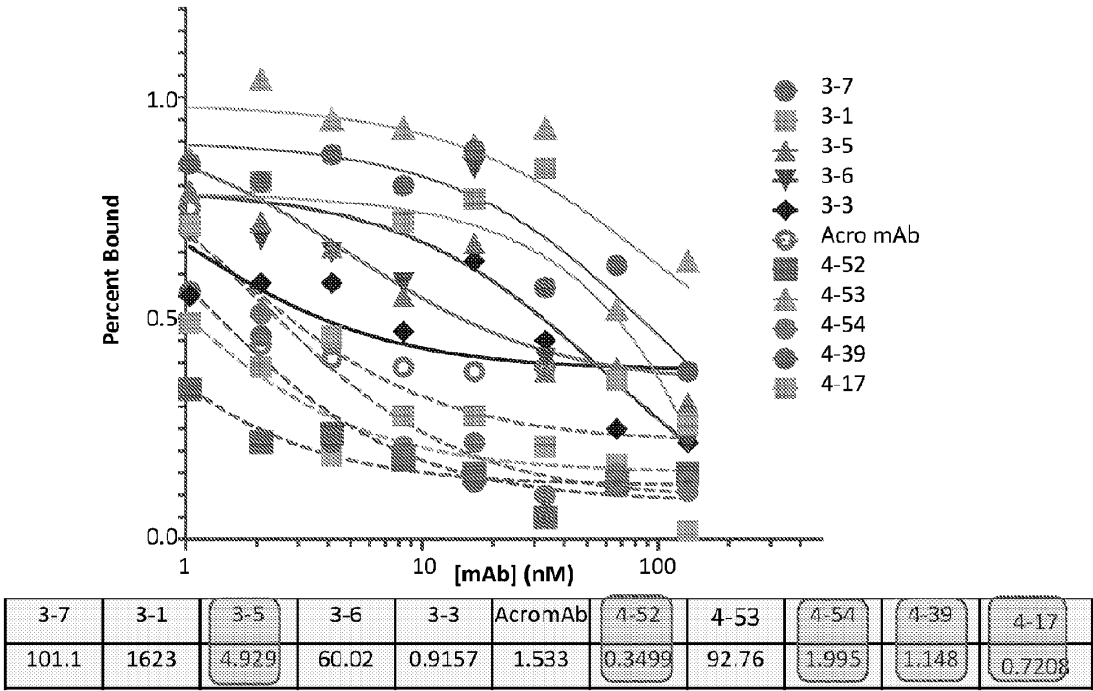


FIG. 13B



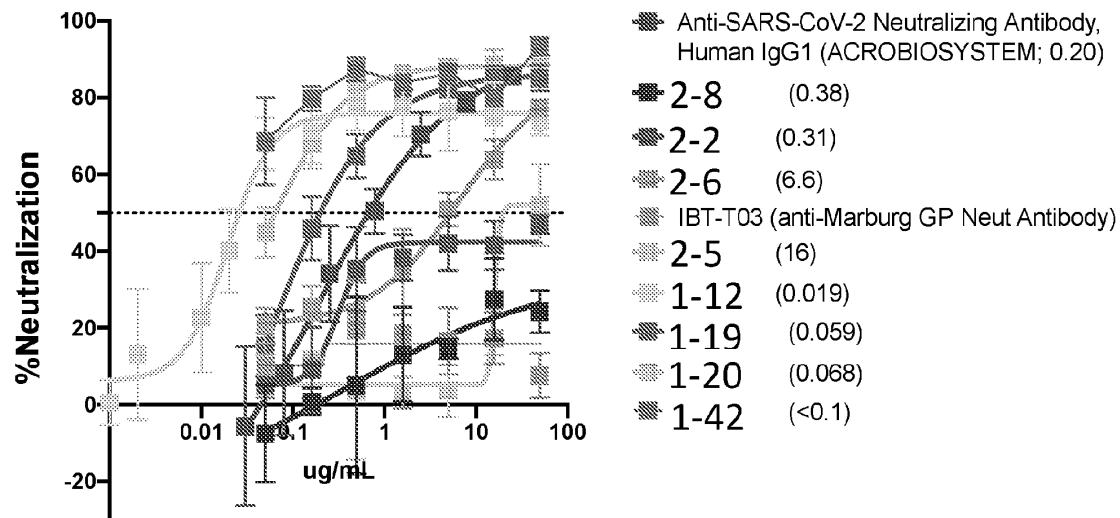


FIG. 14C

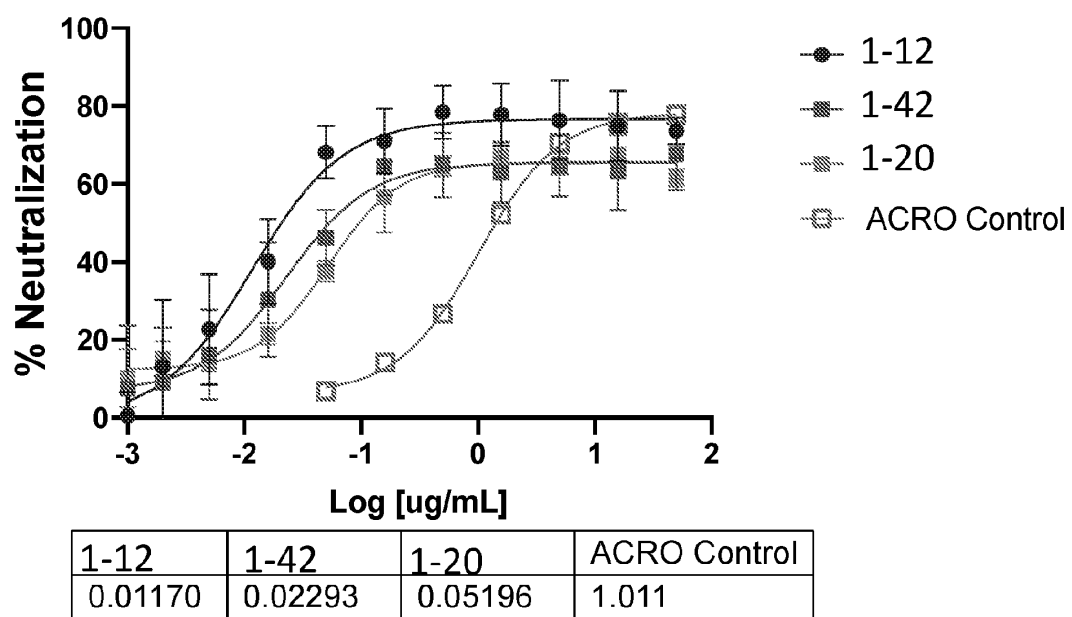
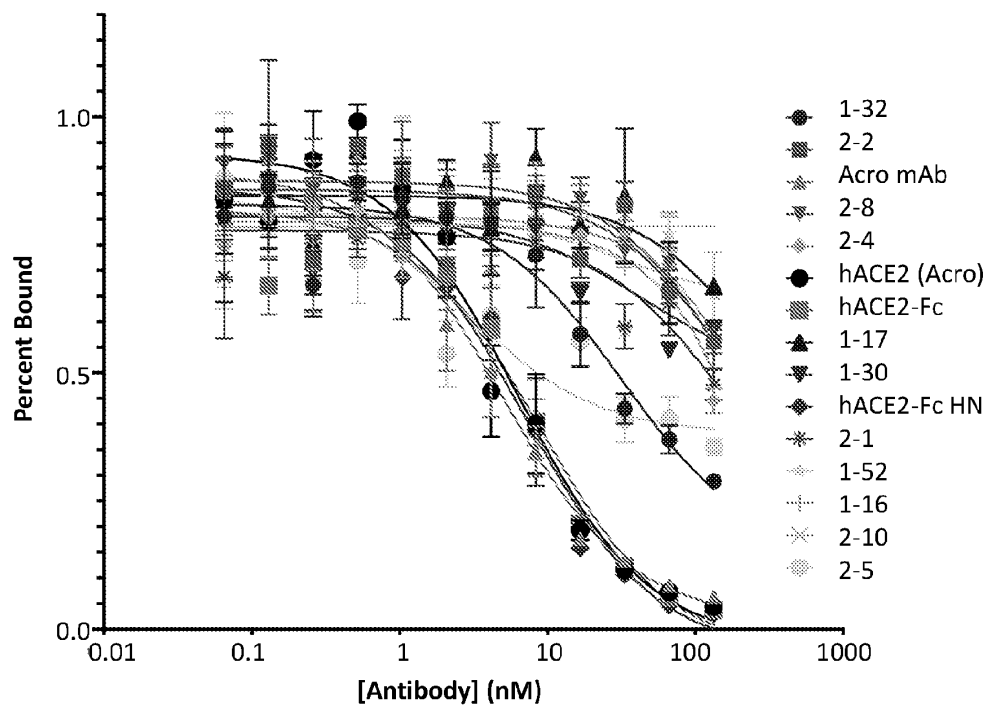


FIG. 14D



Clone	IC50 (nM)	S1 SPR (nM)	S1 RBD SPR (nM)
1-32	32.2	184	-
2-5	2.9	0.78	0.31
Acro mAb	4.9	48	0.1

FIG. 15

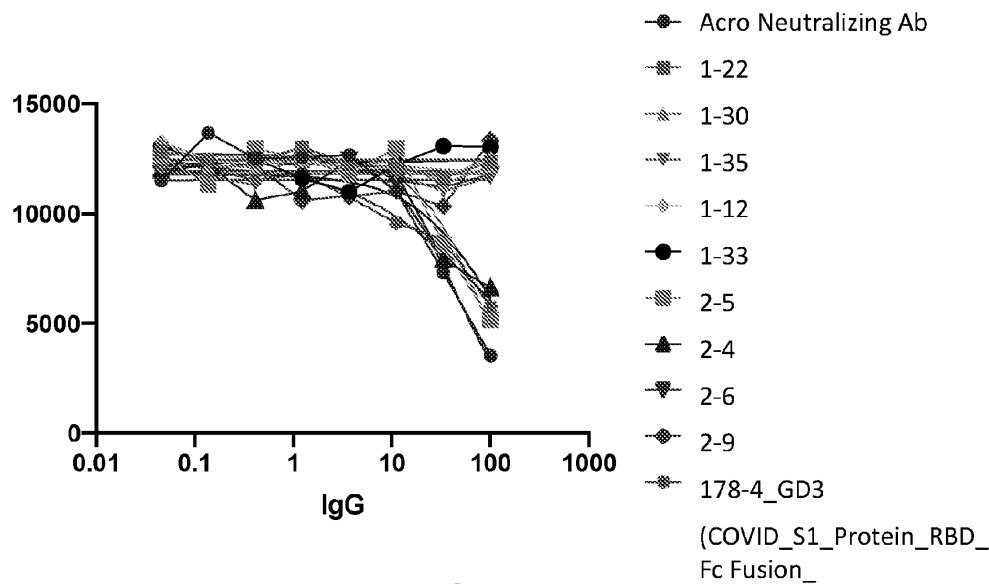
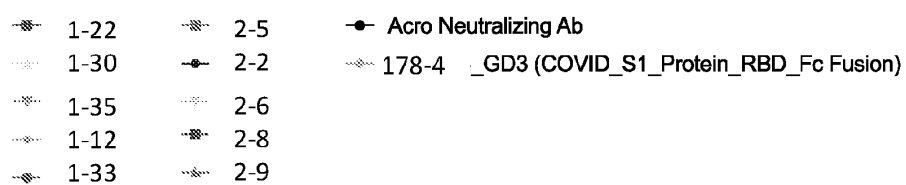
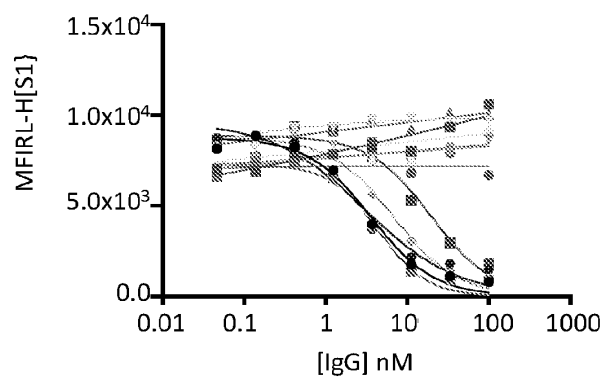


FIG. 16A



Sample	1-22	1-30	1-35	1-12	1-33	2-5	2-2	2-6	2-8	2-9	178-4	Acro anti-S1
IC50 [nM]	ND	ND	ND	ND	ND	4.39	3.0	ND	19.5	ND	6.75	3.58

FIG. 16B

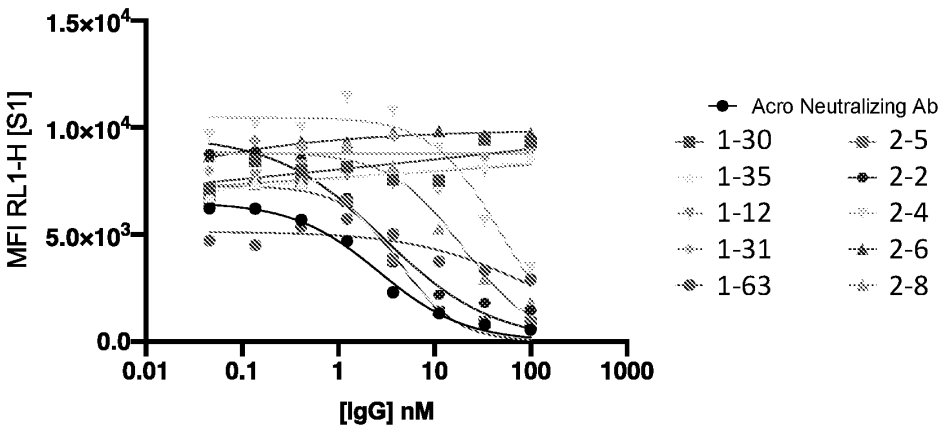


FIG. 17A

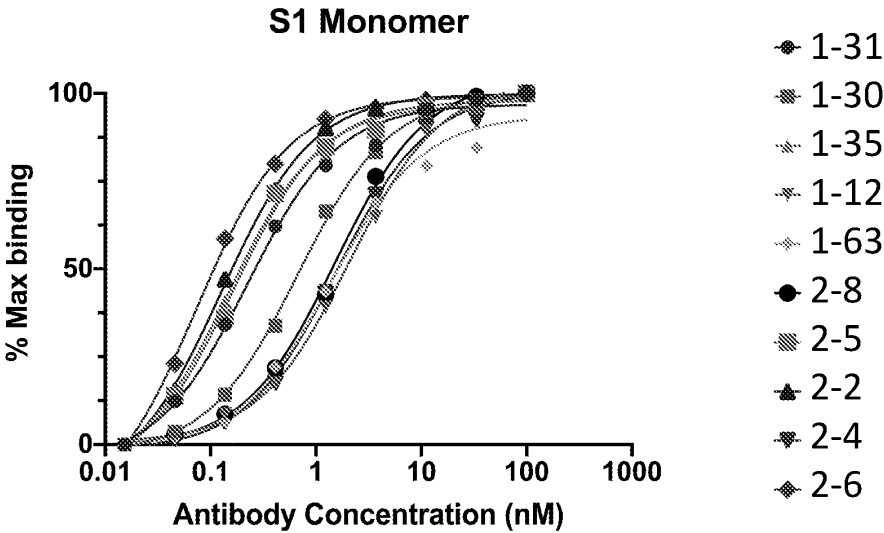


FIG. 17B

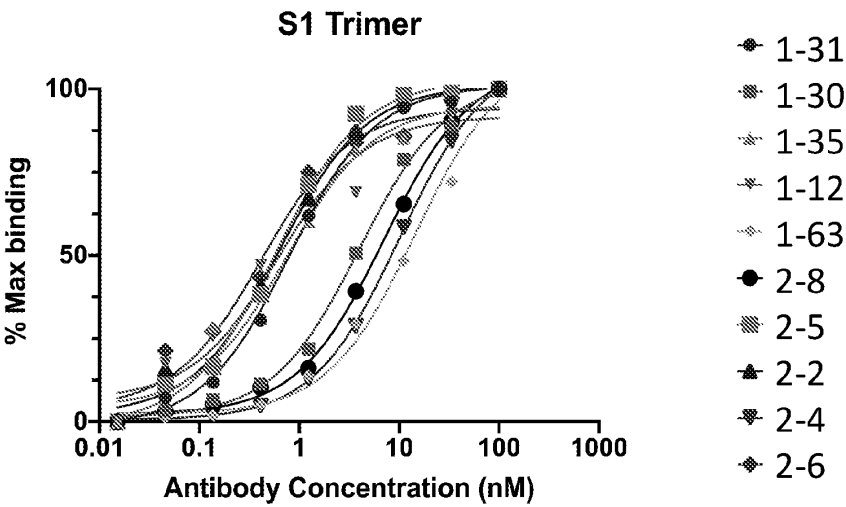


FIG. 17C

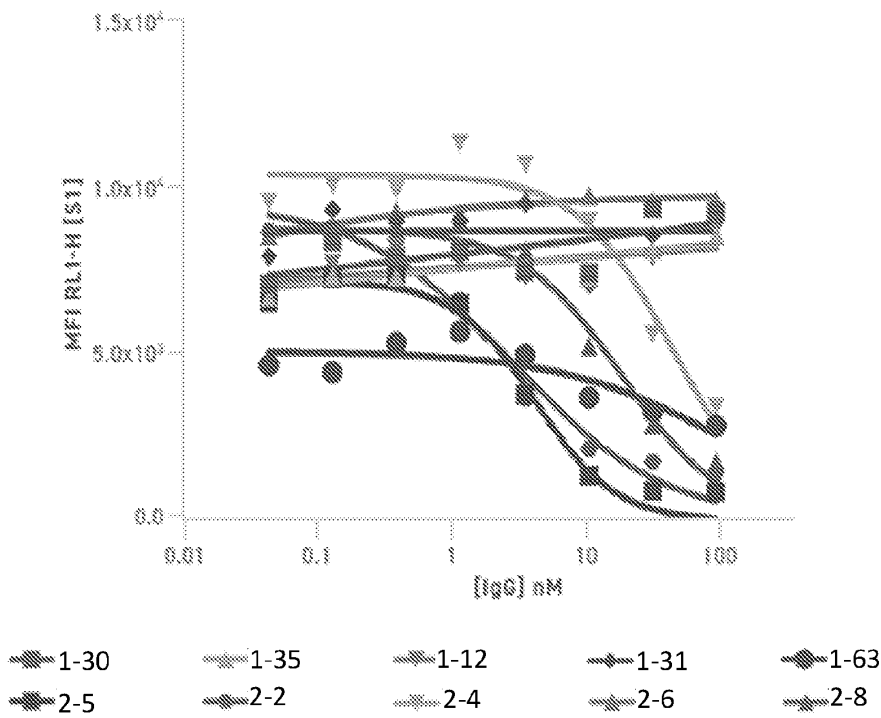


FIG. 17D

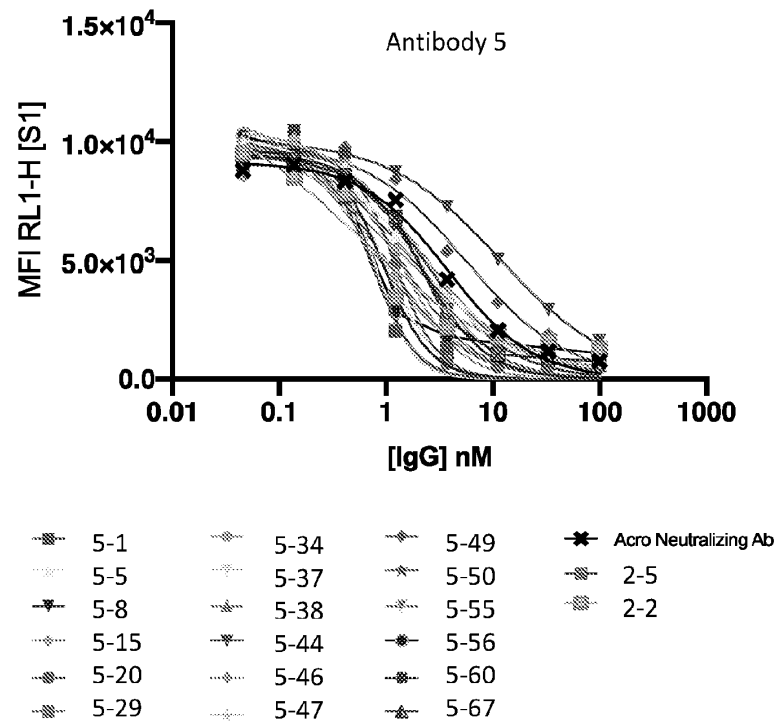


FIG. 18A

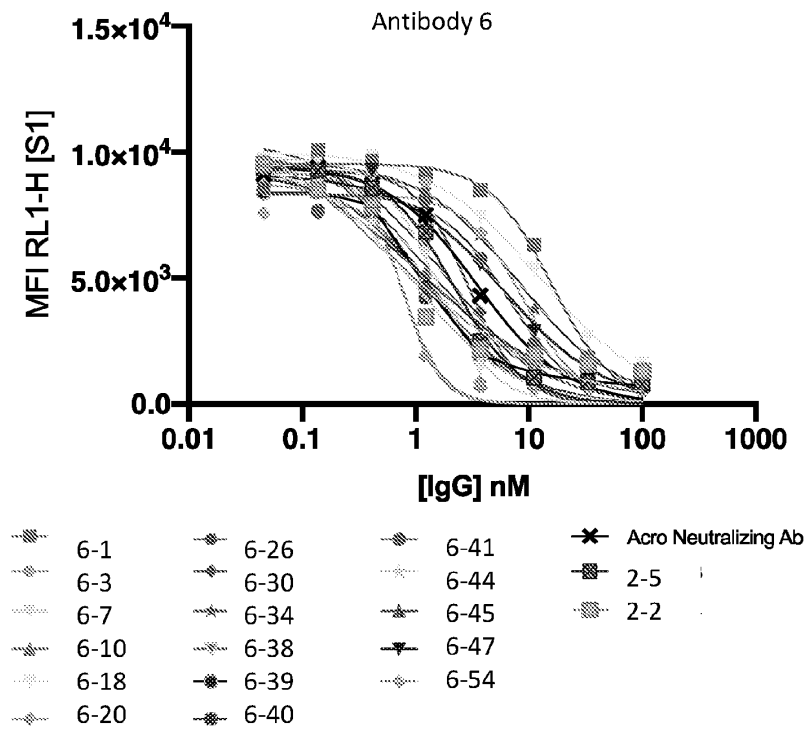


FIG. 18B

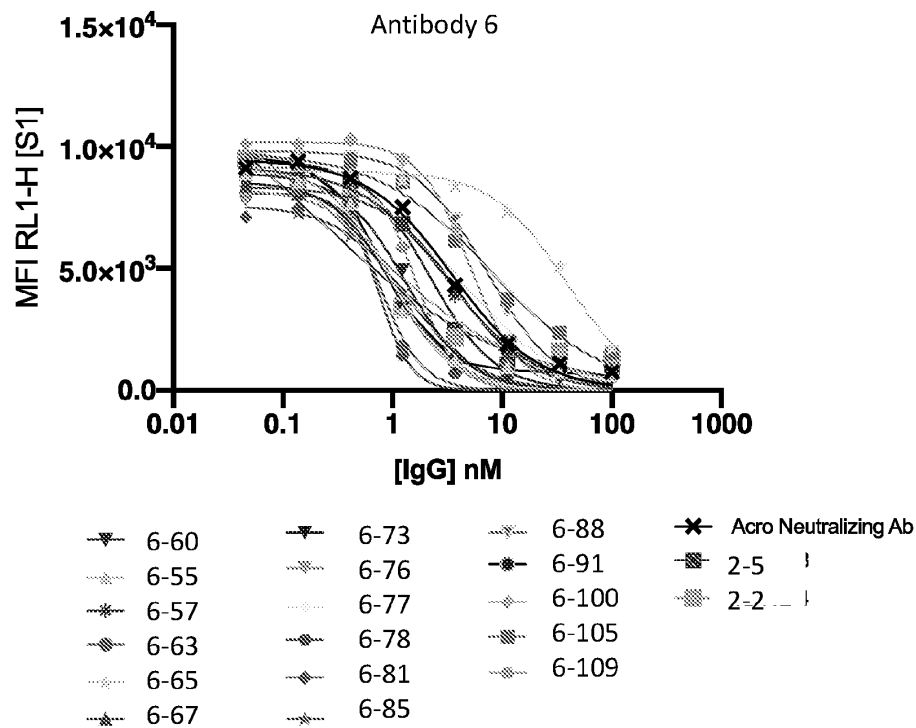


FIG. 18C

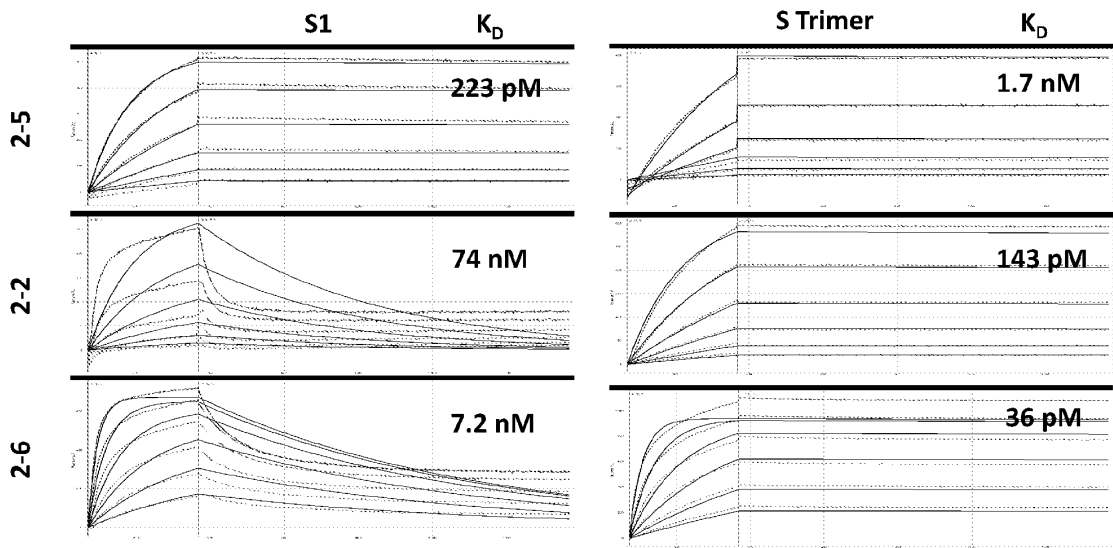
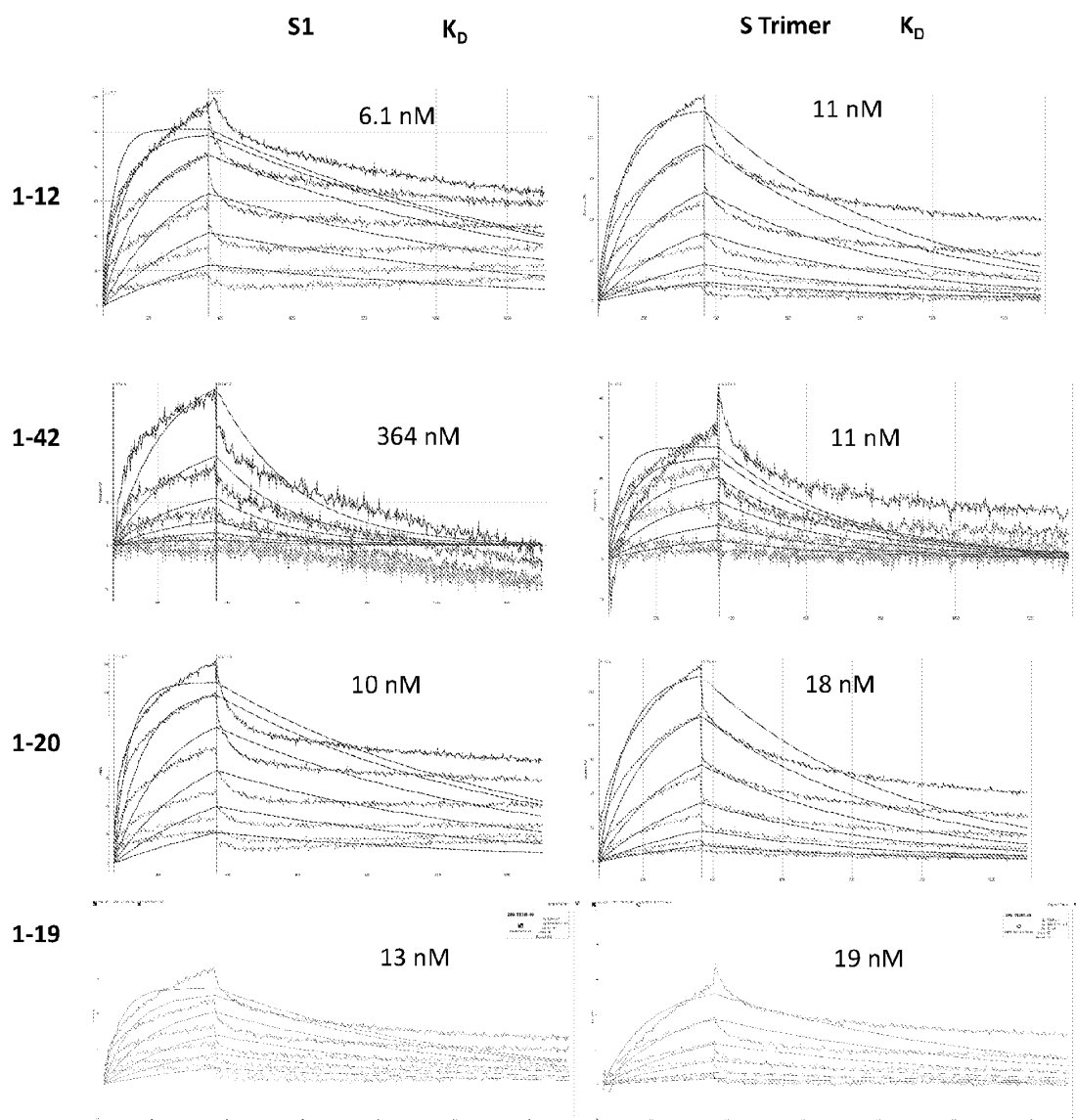


FIG. 19A

**FIG. 19B**

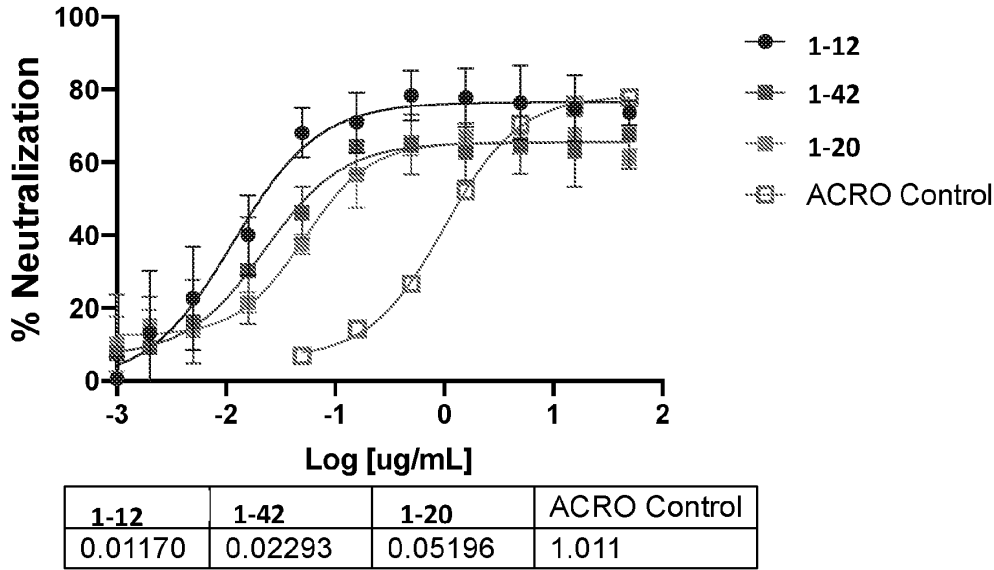


FIG. 19C

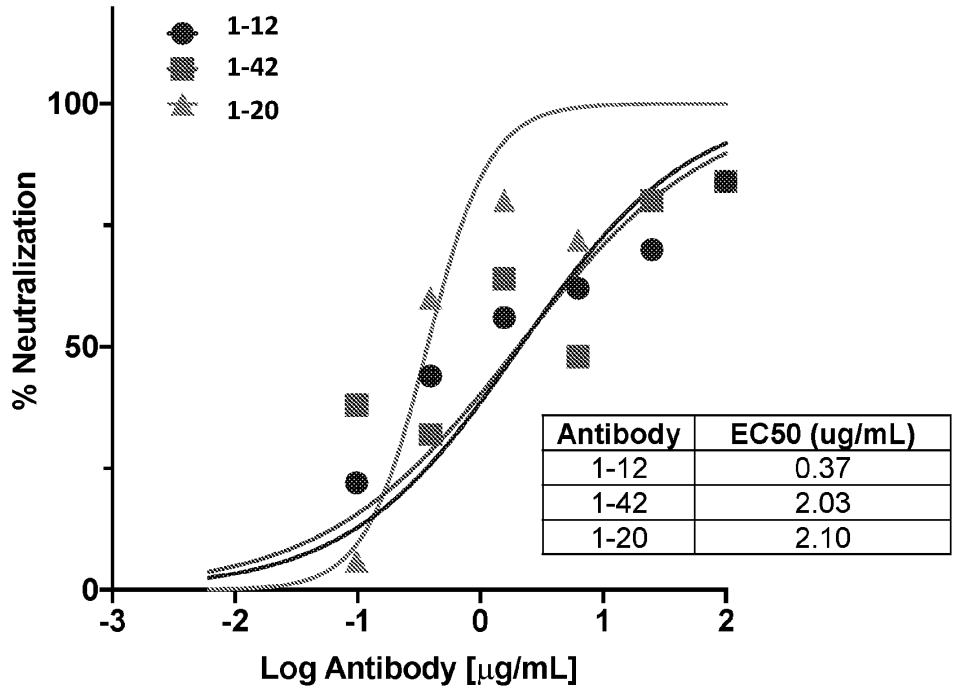


FIG. 19D

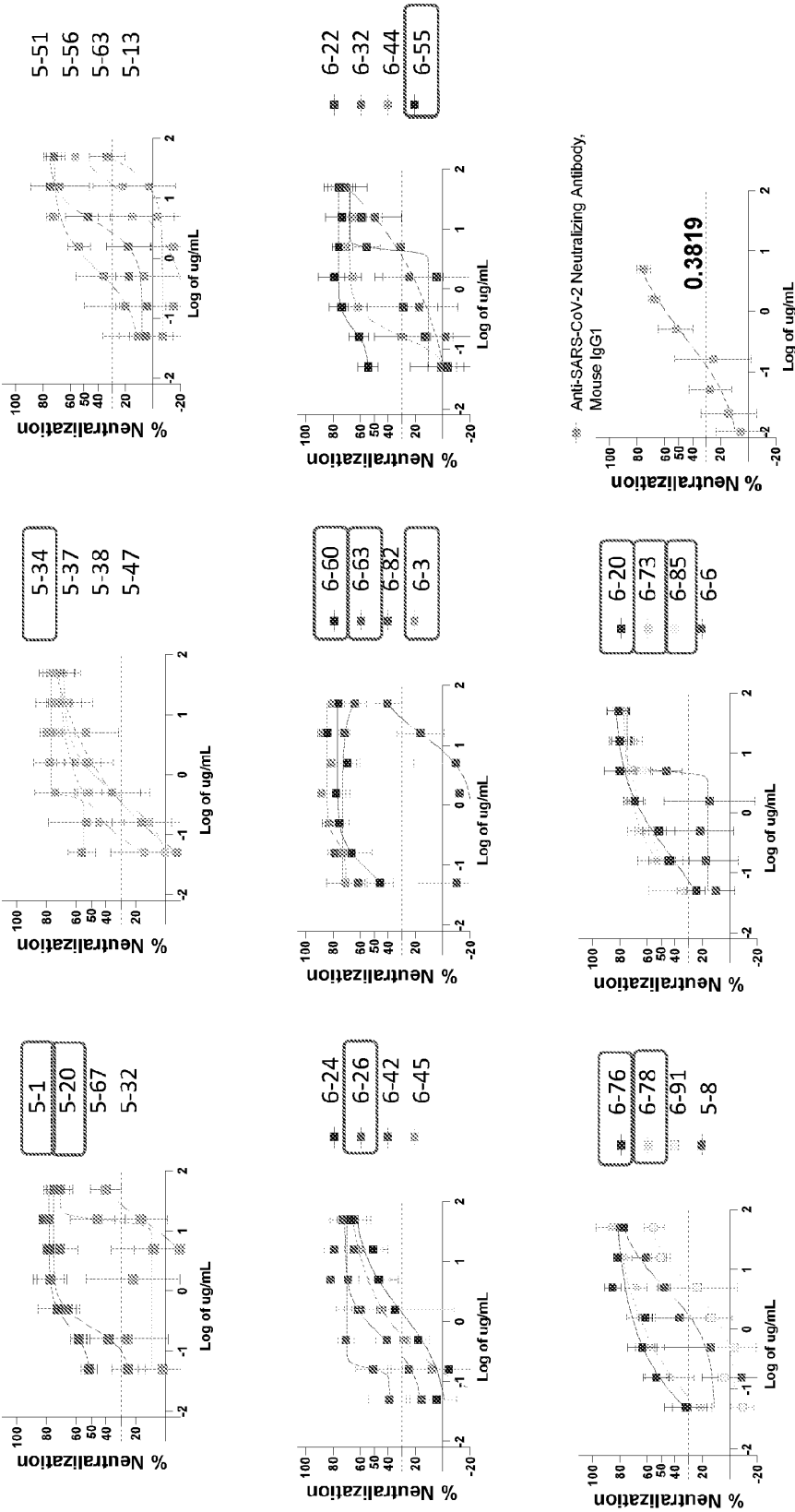


FIG. 20A

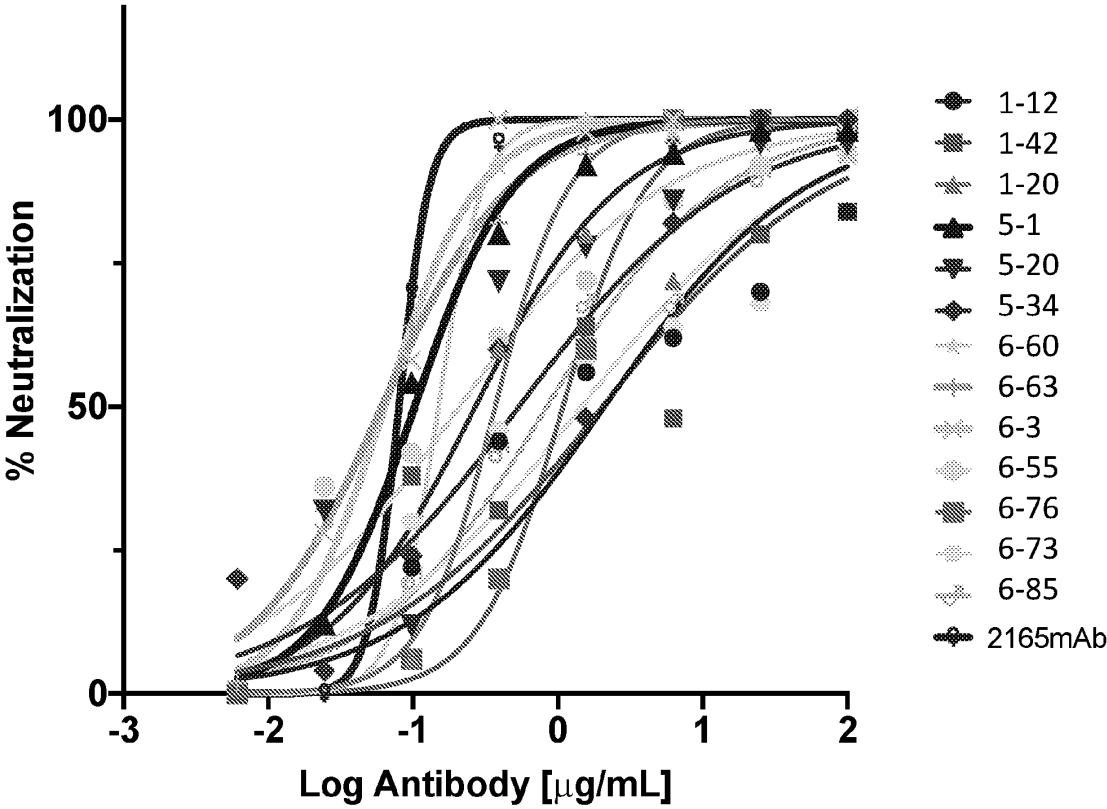


FIG. 20B

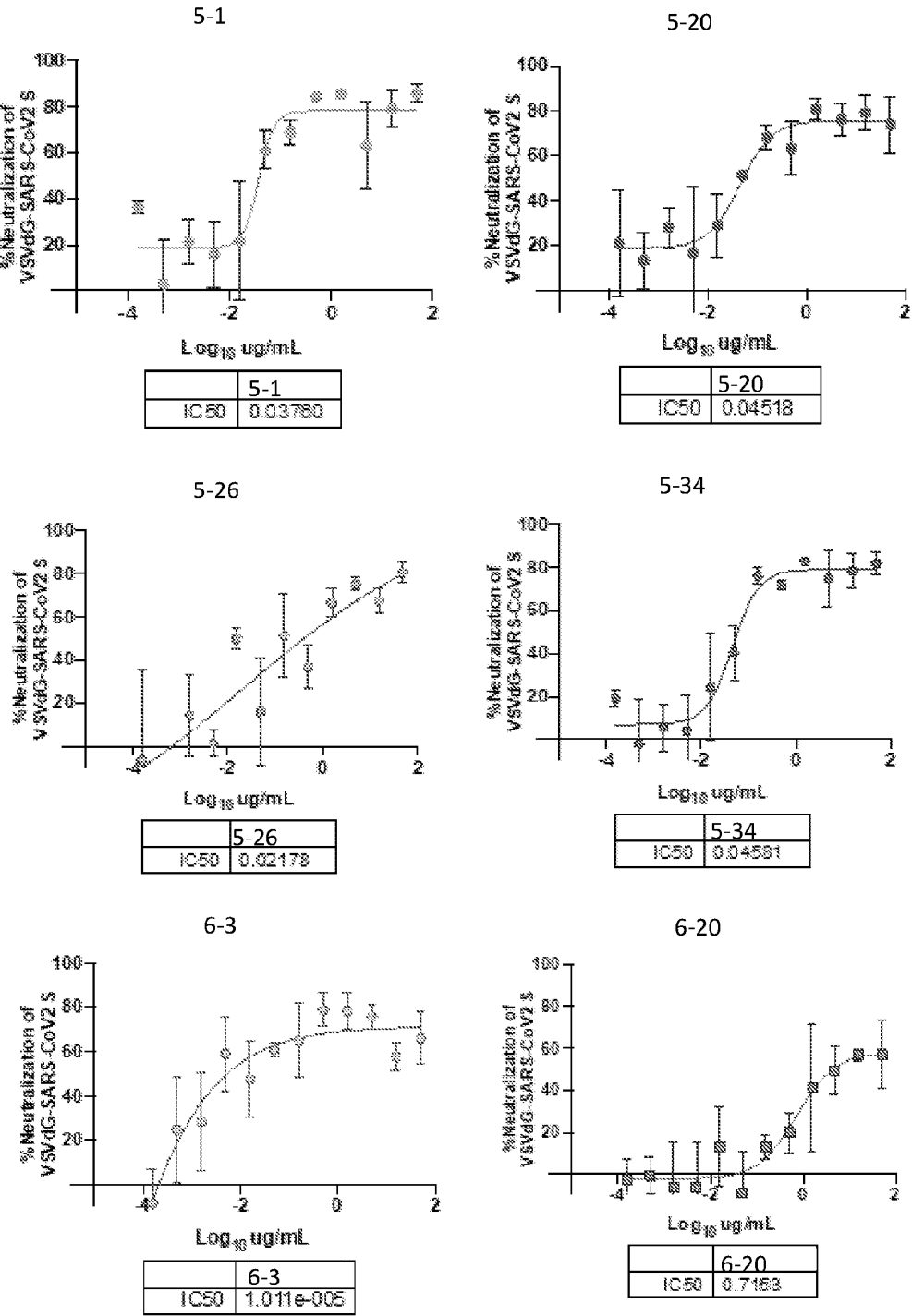


FIG. 20C

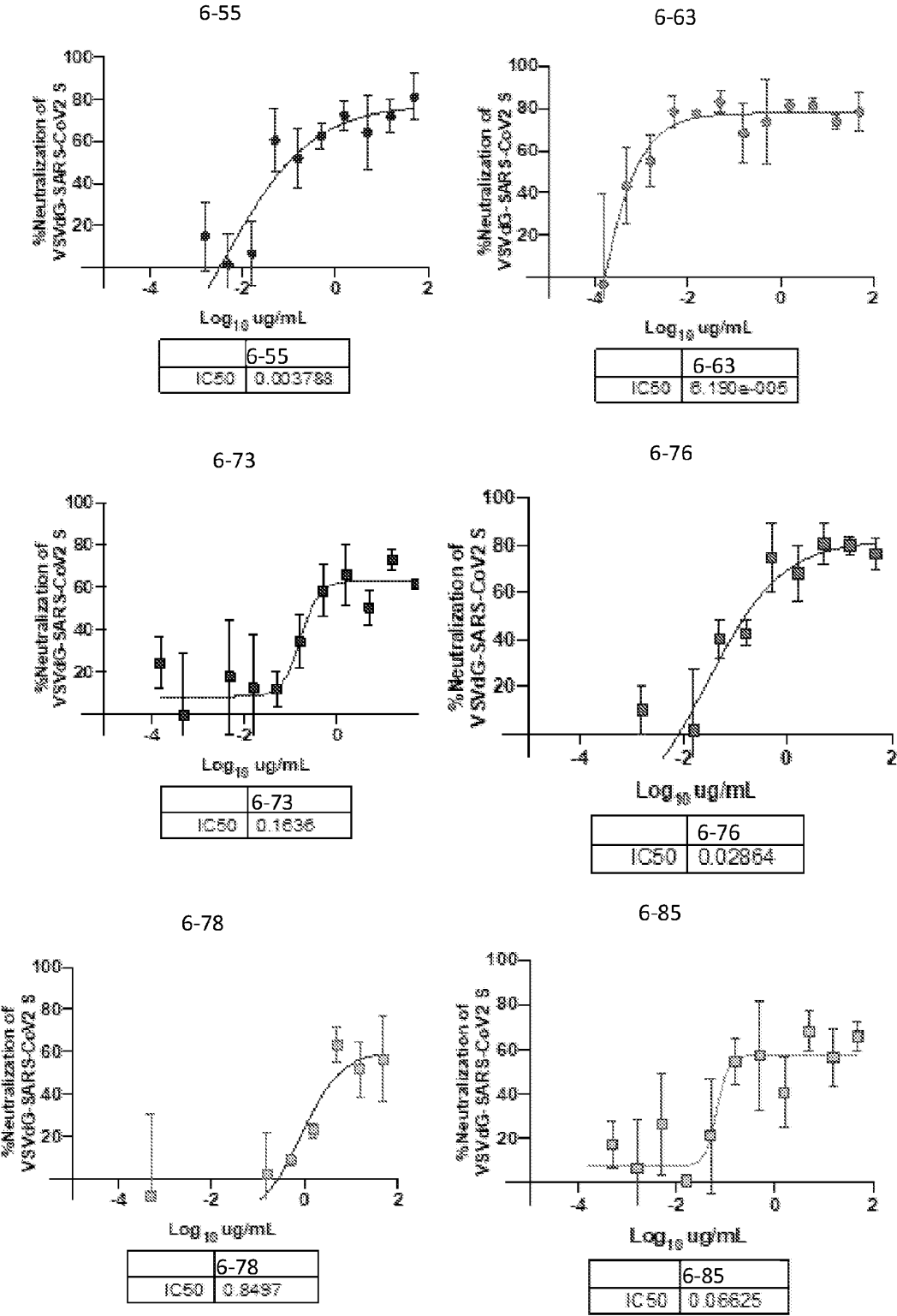


FIG. 20D

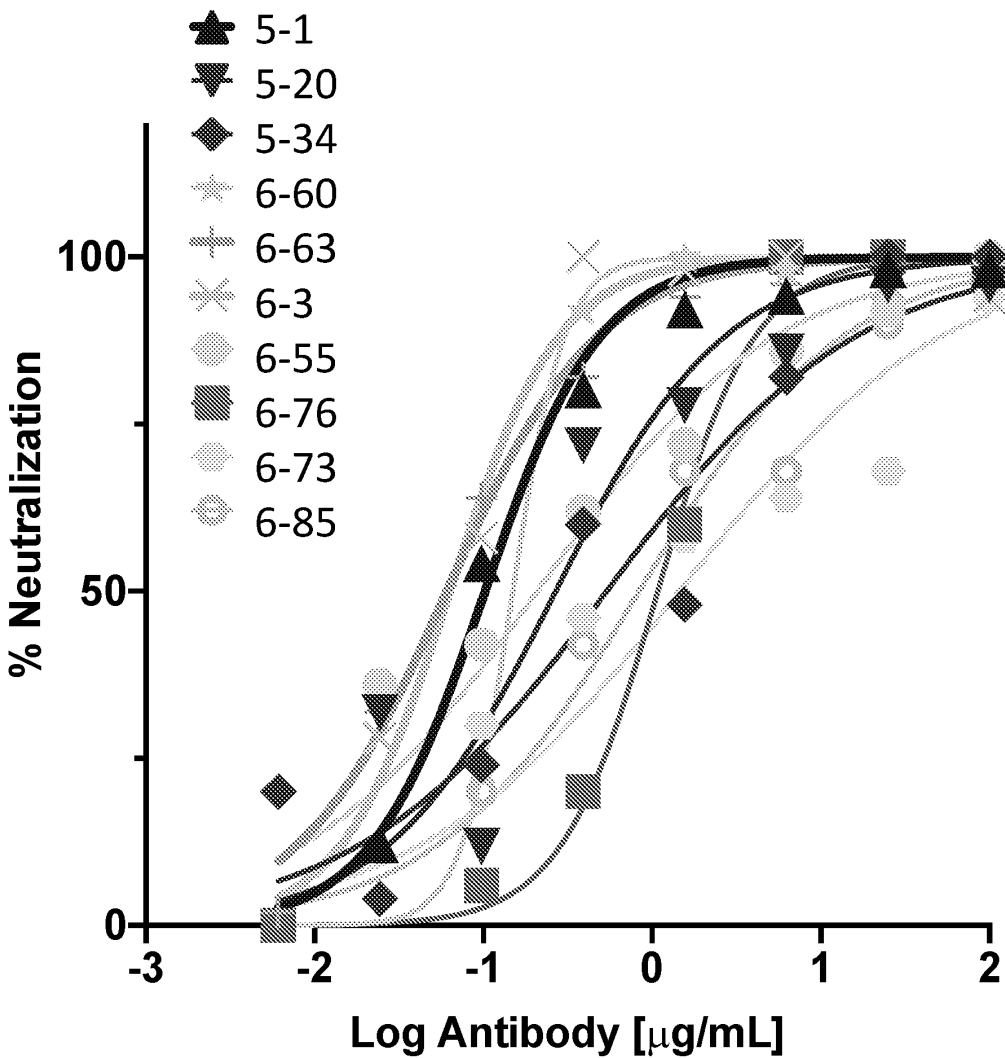


FIG. 20E

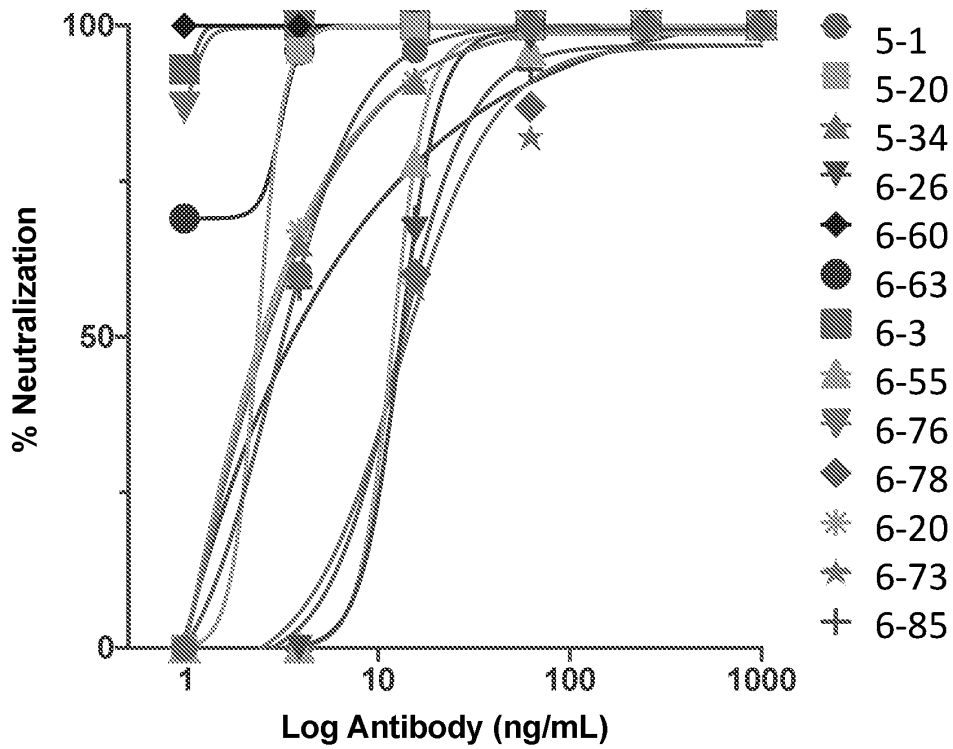


FIG. 20F

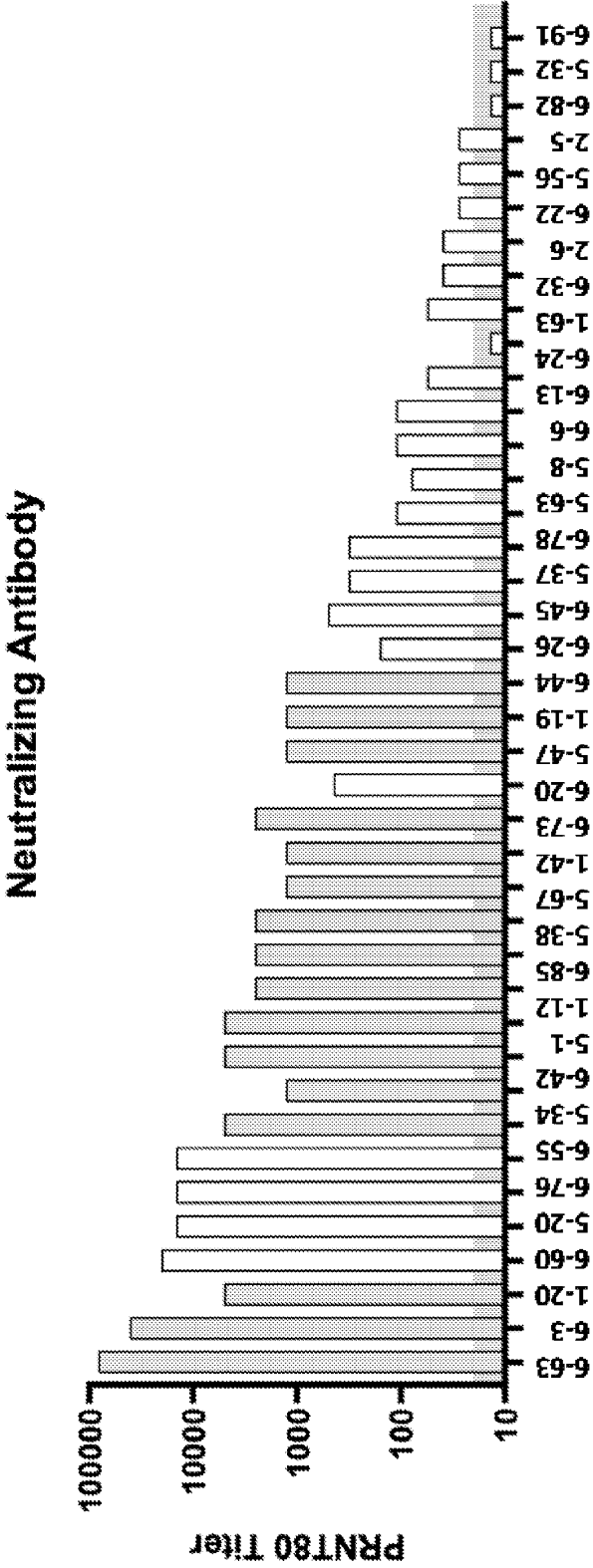


FIG. 20G

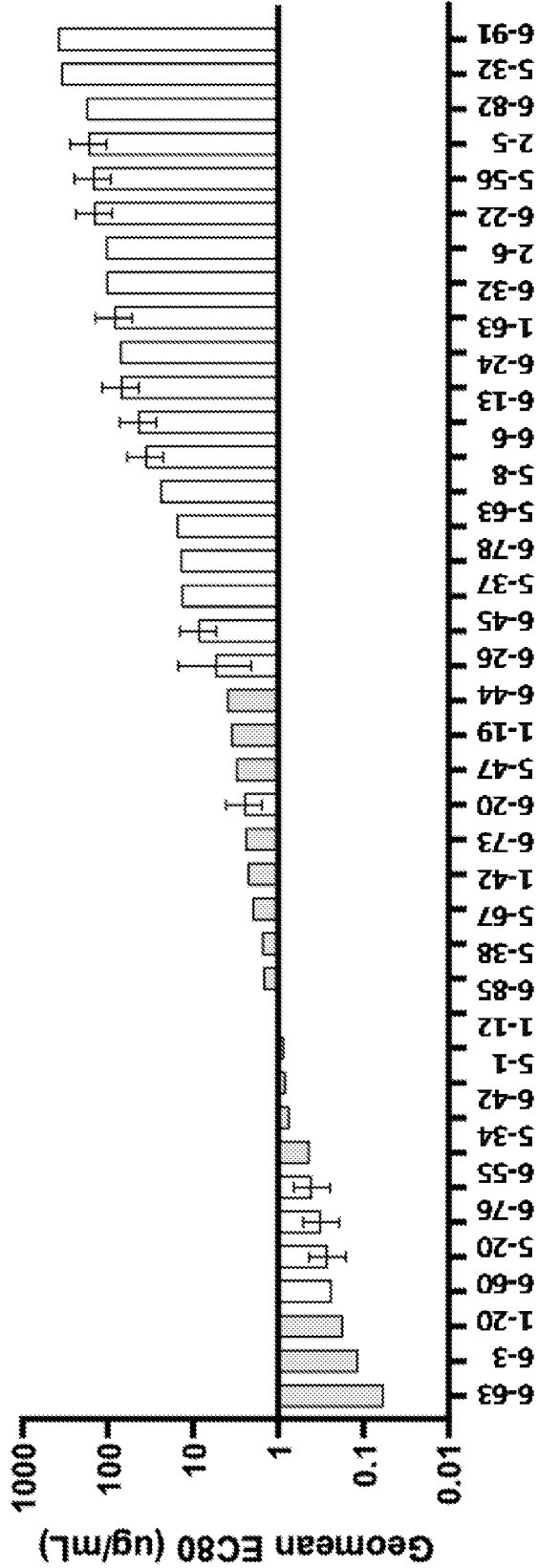
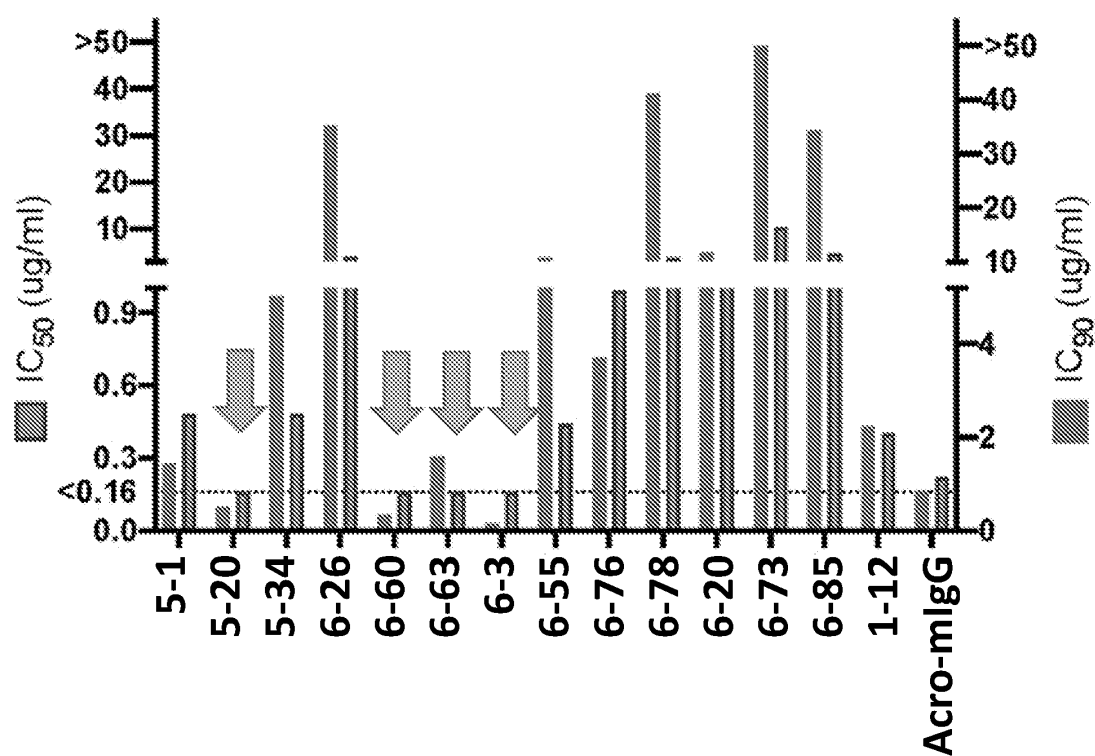


FIG. 20H

SARS-CoV-2 PRNT



mAB	Pseudovirus Neutralization Testing		SARS-CoV-2 PRNT	
	NT50 (ug/mL)	%Neut recorded at highest concentration tested (i.e. 50 ug/mL)	IC50 (ug/mL)	IC90 (ug/mL)
5-1	0.0376	85.92% ±4.25	0.48	1.44
5-20	0.04518	73.88% ±12.82	<0.16	0.50
5-34	0.04581	82.02% ±5.43	0.48	5.01
6-26	0.02178	80.53% ±4.64	4.15	35.19
6-60	0.01467	77.58% ±7.25	<0.16	0.34
6-63	0.00104	78.71% ±9.23	<0.16	1.58
6-3	0.007	66.14% ±11.79	<0.16	0.16
6-55	0.158	81.38% ±11.04	0.44	10.85
6-76	0.02864	76.21% ±6.94	0.99	3.70
6-78	0.8497	56.6% ±19.95	3.79	41.11
6-20	0.7153	56.83% ±16.48	1.49	11.68
6-73	0.1636	61.89% ±1.03	10.42	>50
6-85	0.06625	65.8% ±6.9	4.72	34.28
1-12	0.01941	73.6% ±3.4	0.40	2.23

FIG. 20I

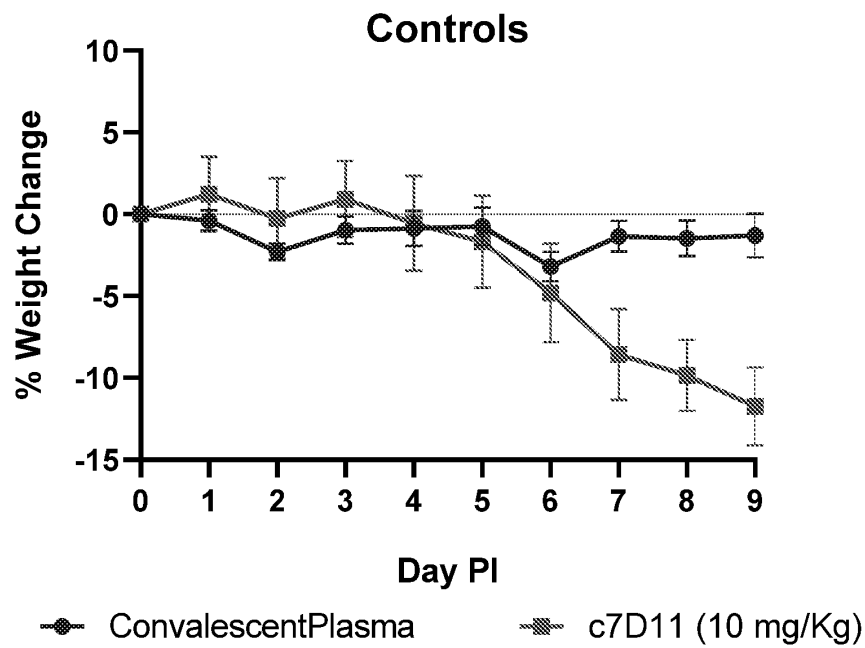


FIG. 21A

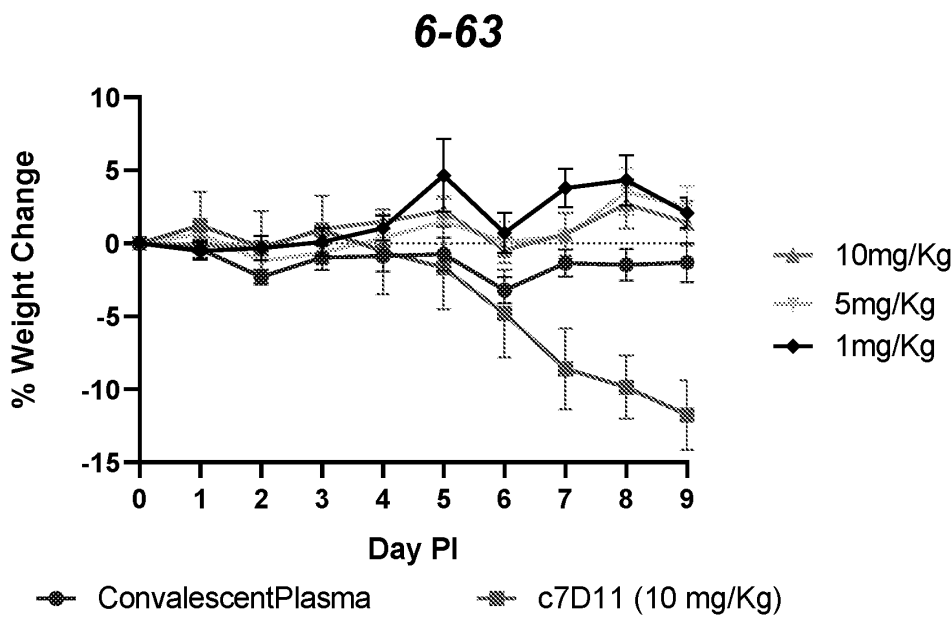


FIG. 21B

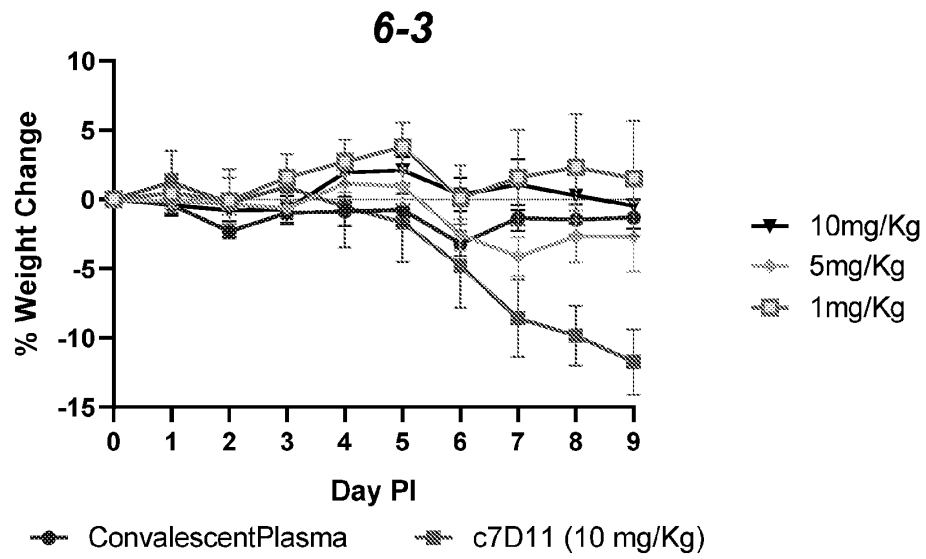


FIG. 21C

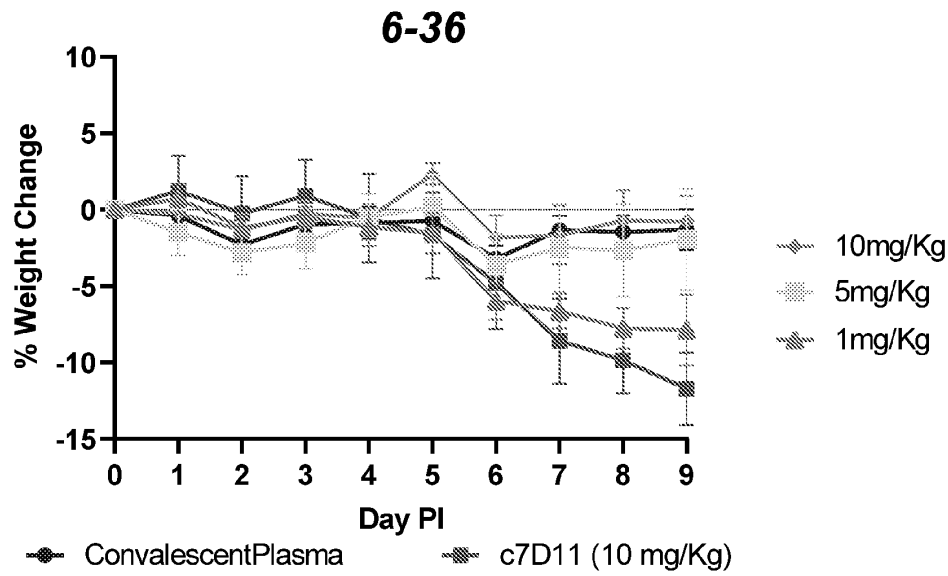


FIG. 21D

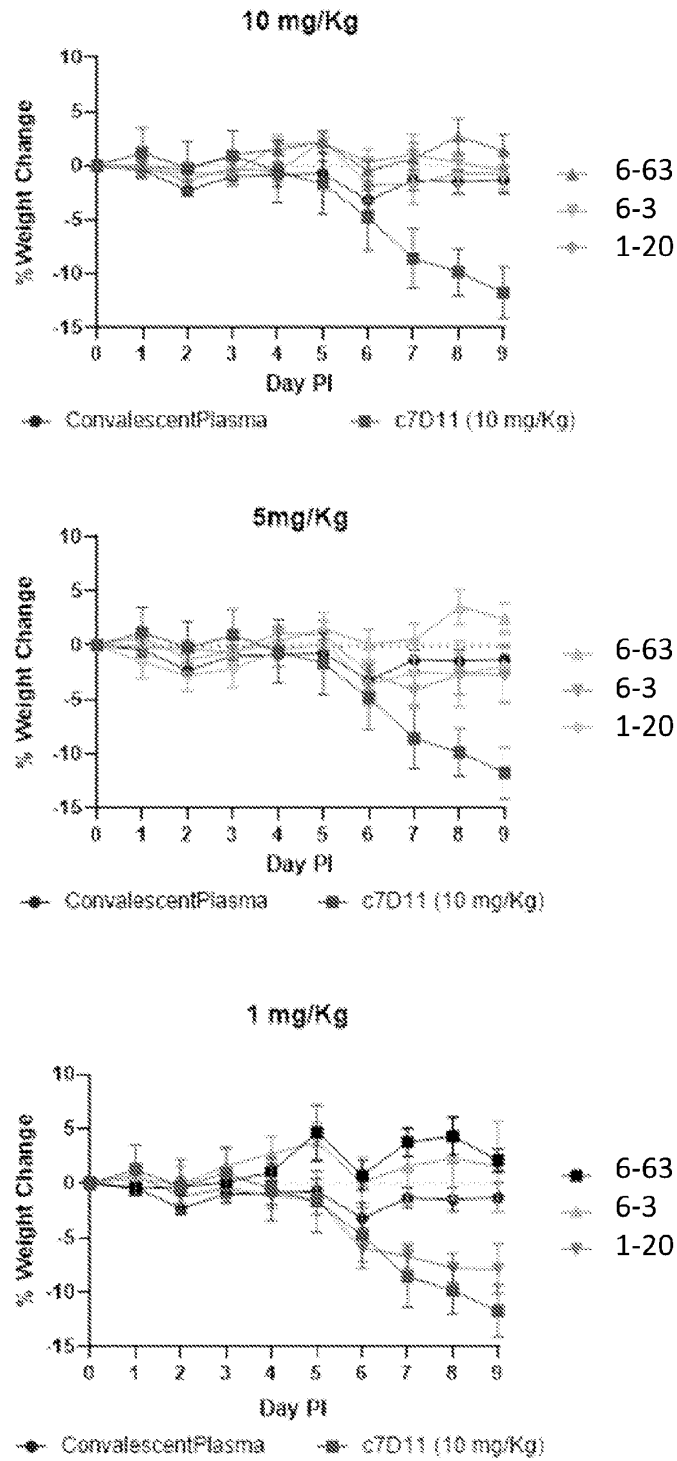
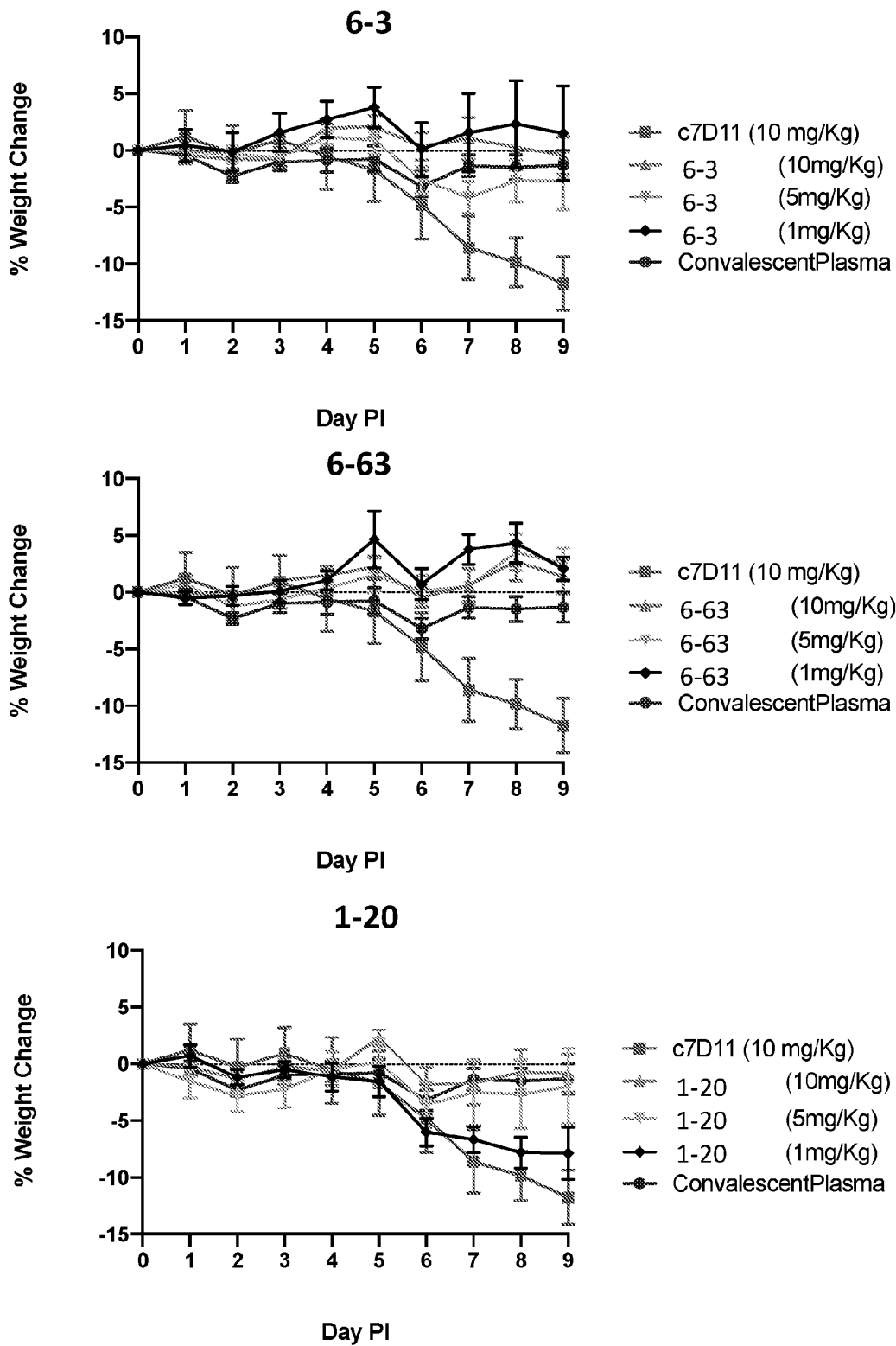


FIG. 21E



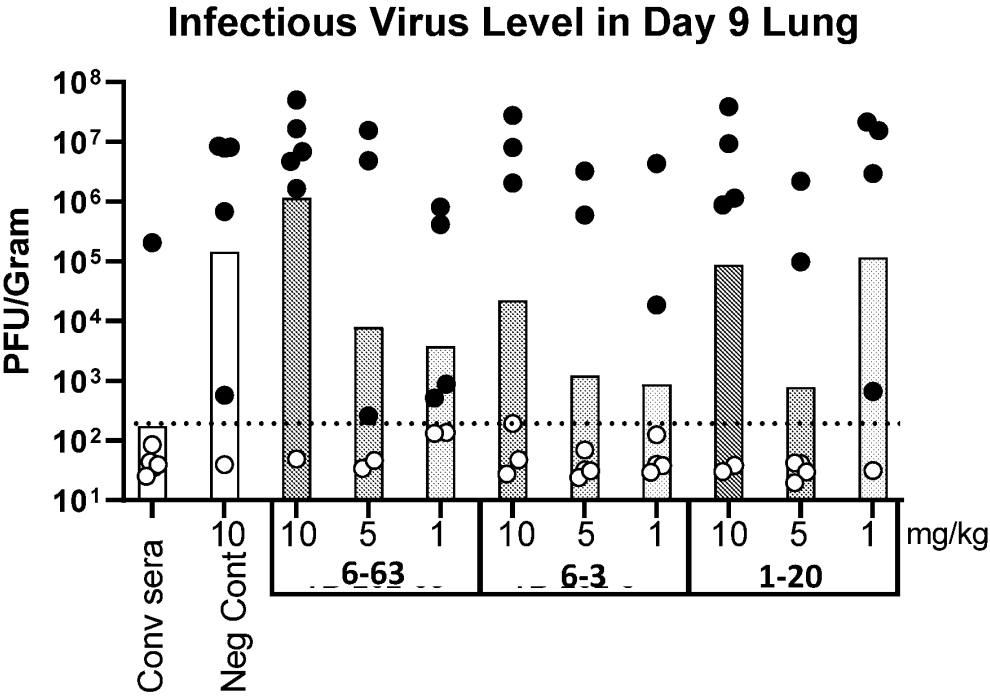


FIG. 21G

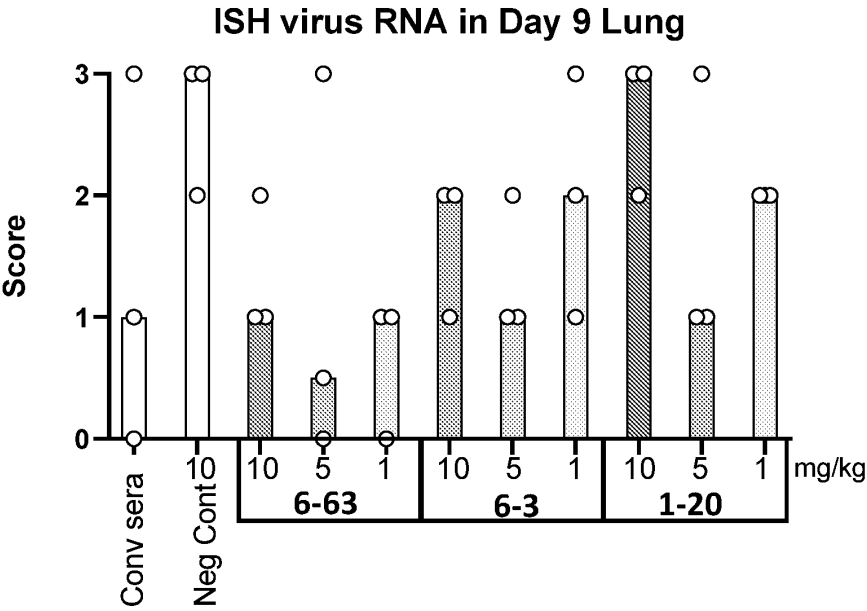


FIG. 21H

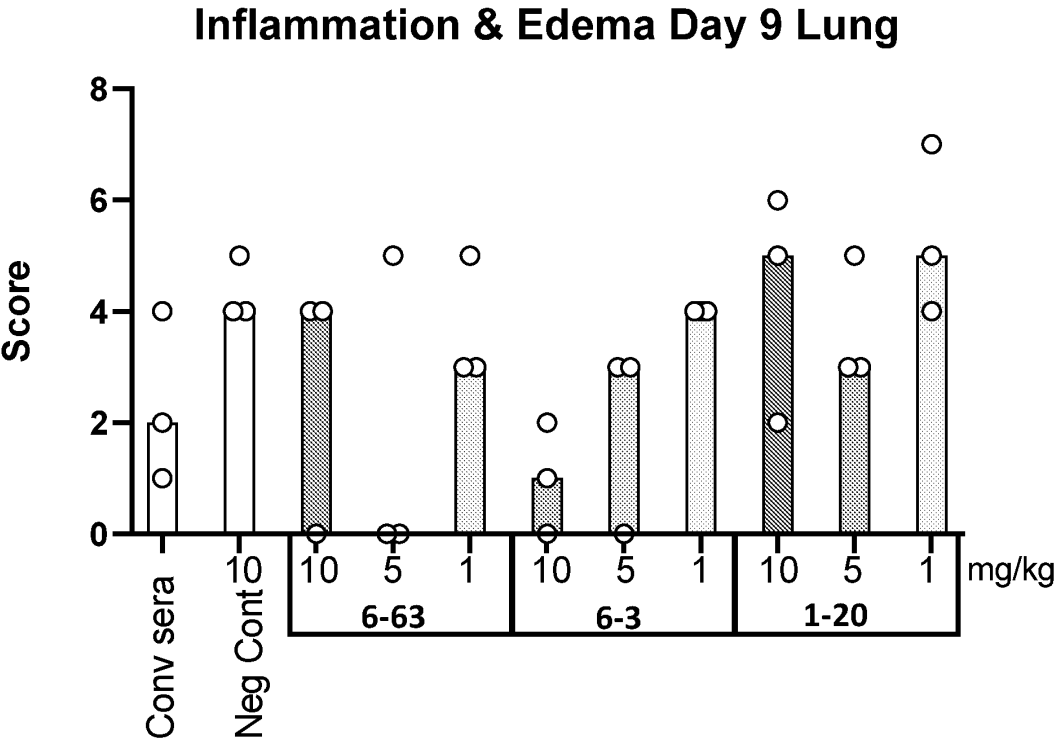
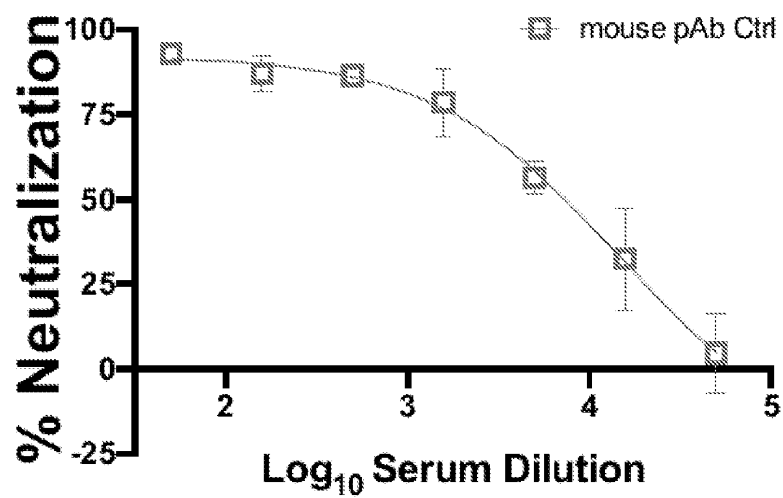
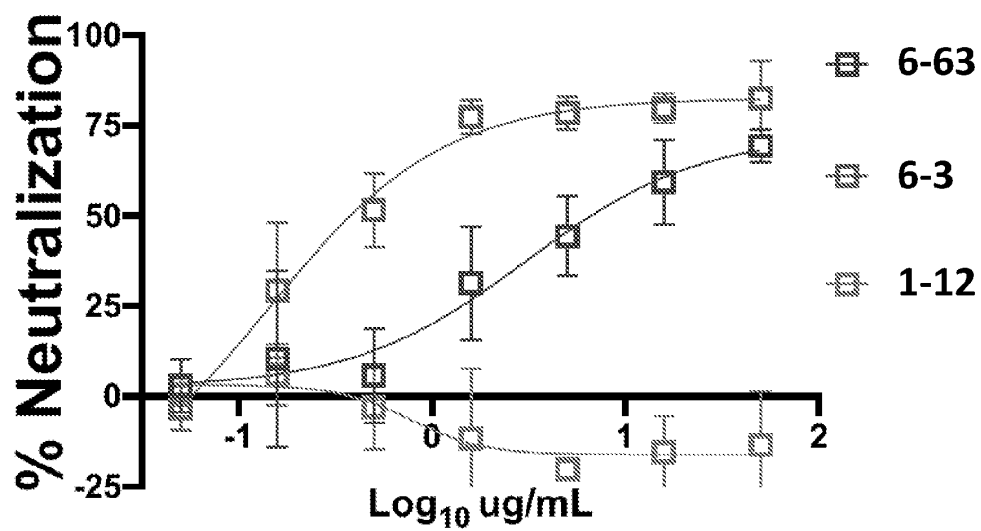


FIG. 21I

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

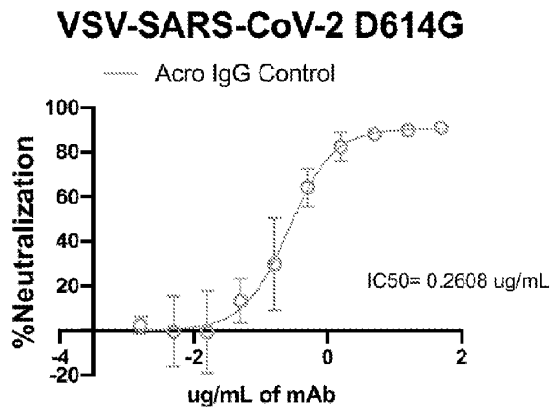


FIG. 23A

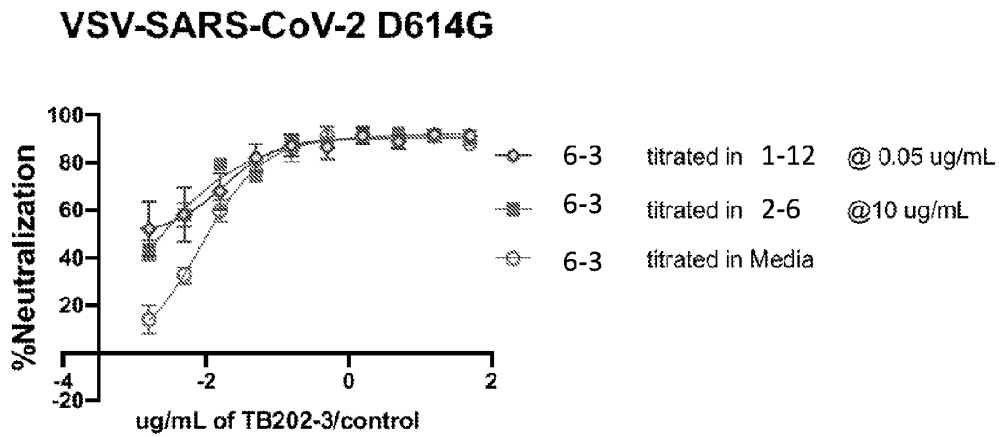


FIG. 23B

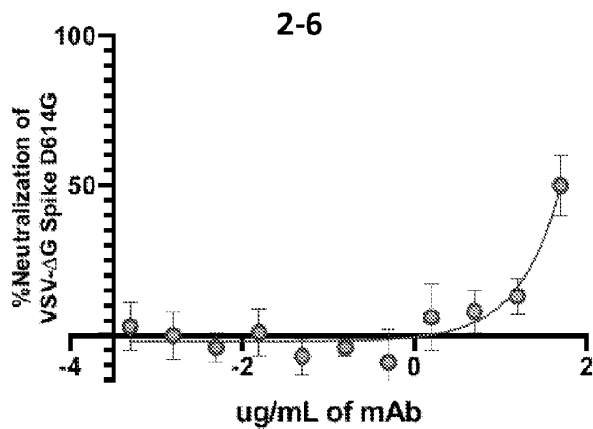


FIG. 23C

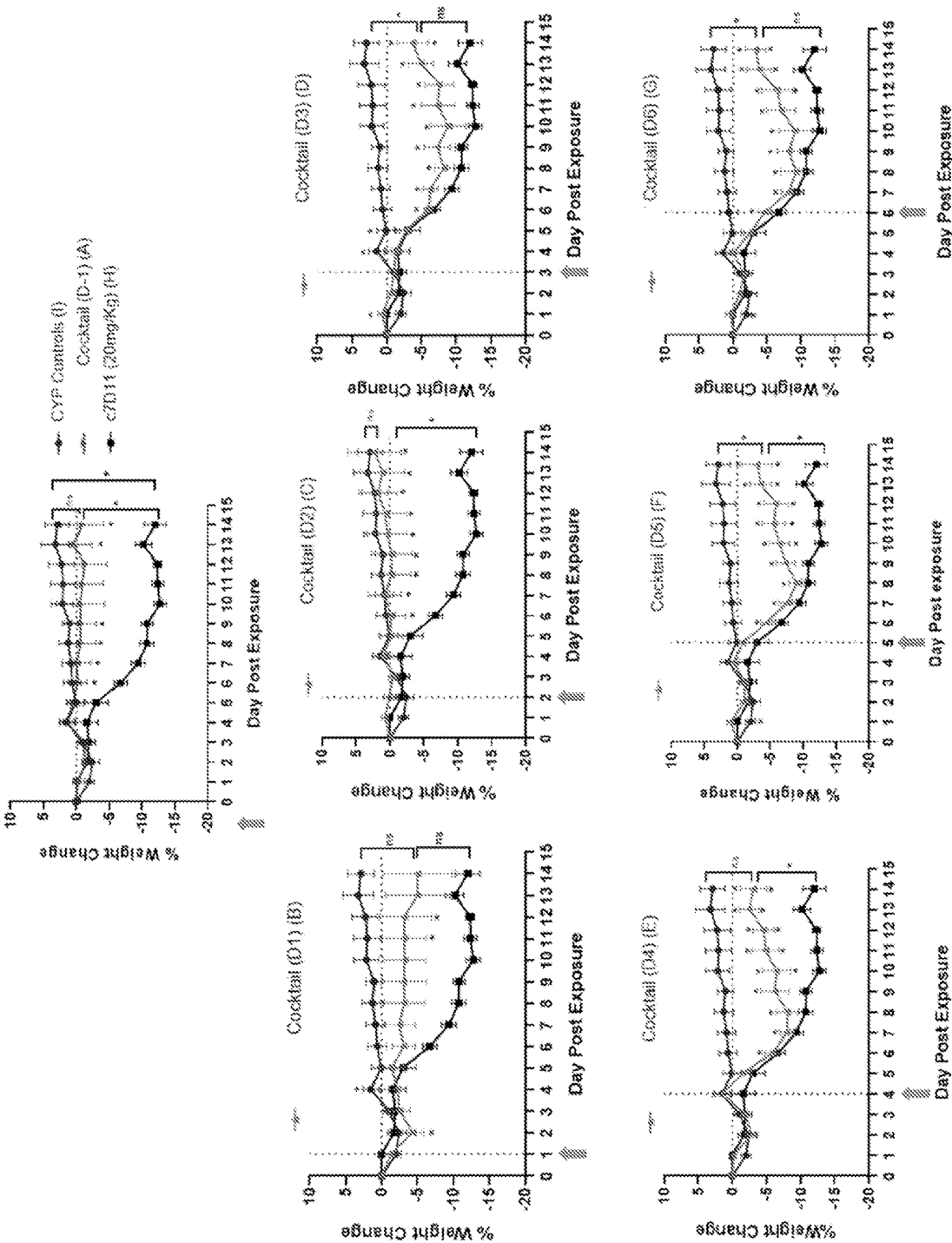


FIG. 24A

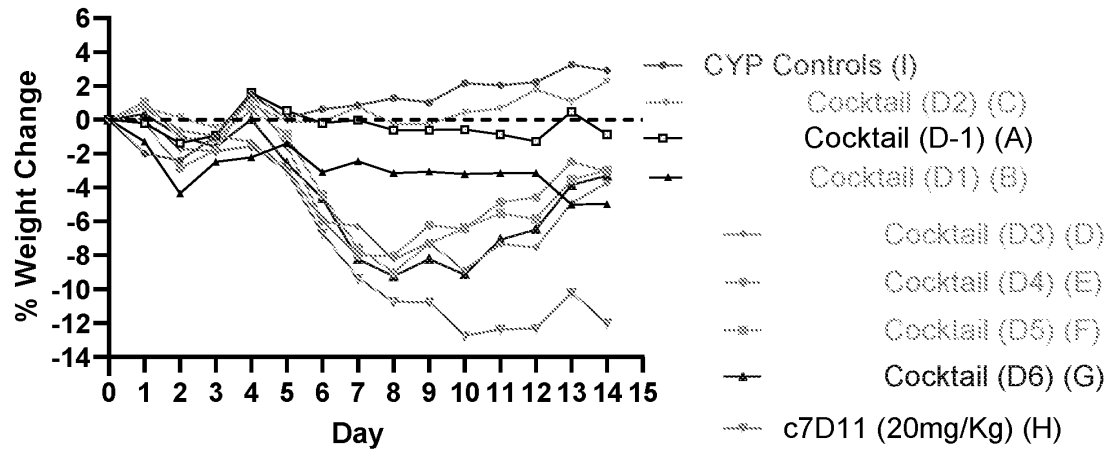


FIG. 24B

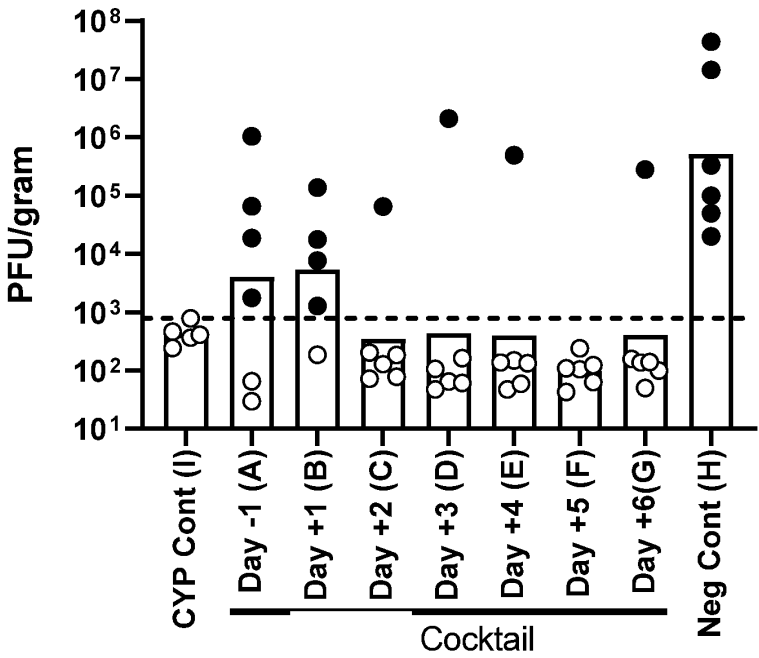


FIG. 24C

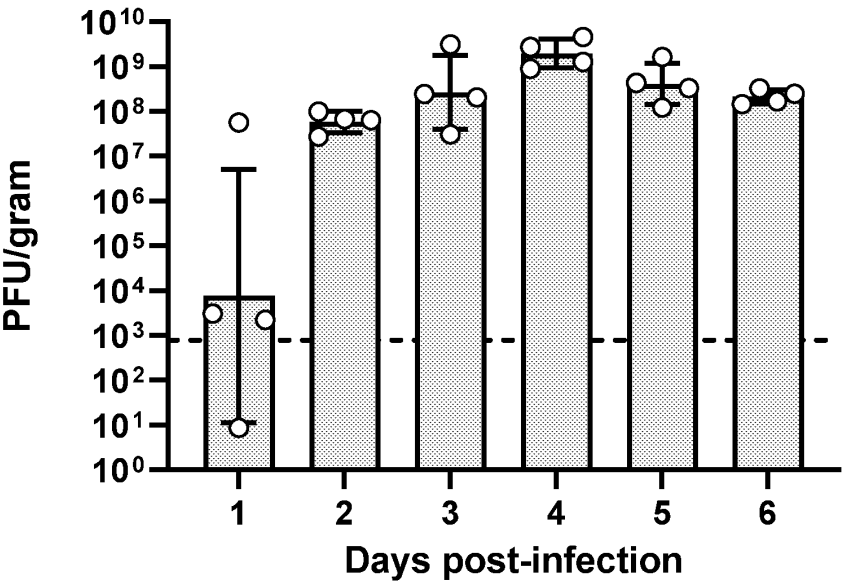


FIG. 24D