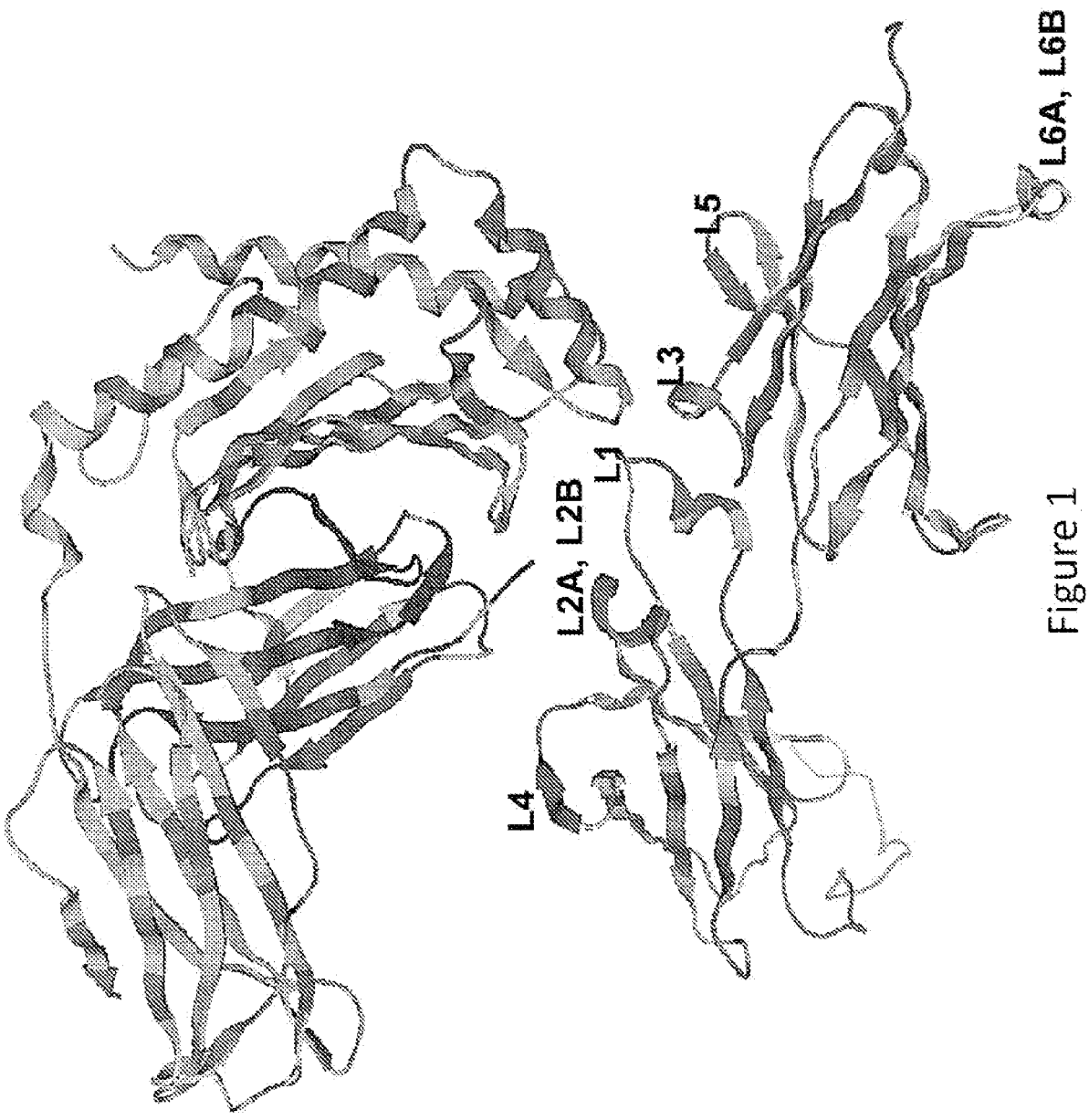
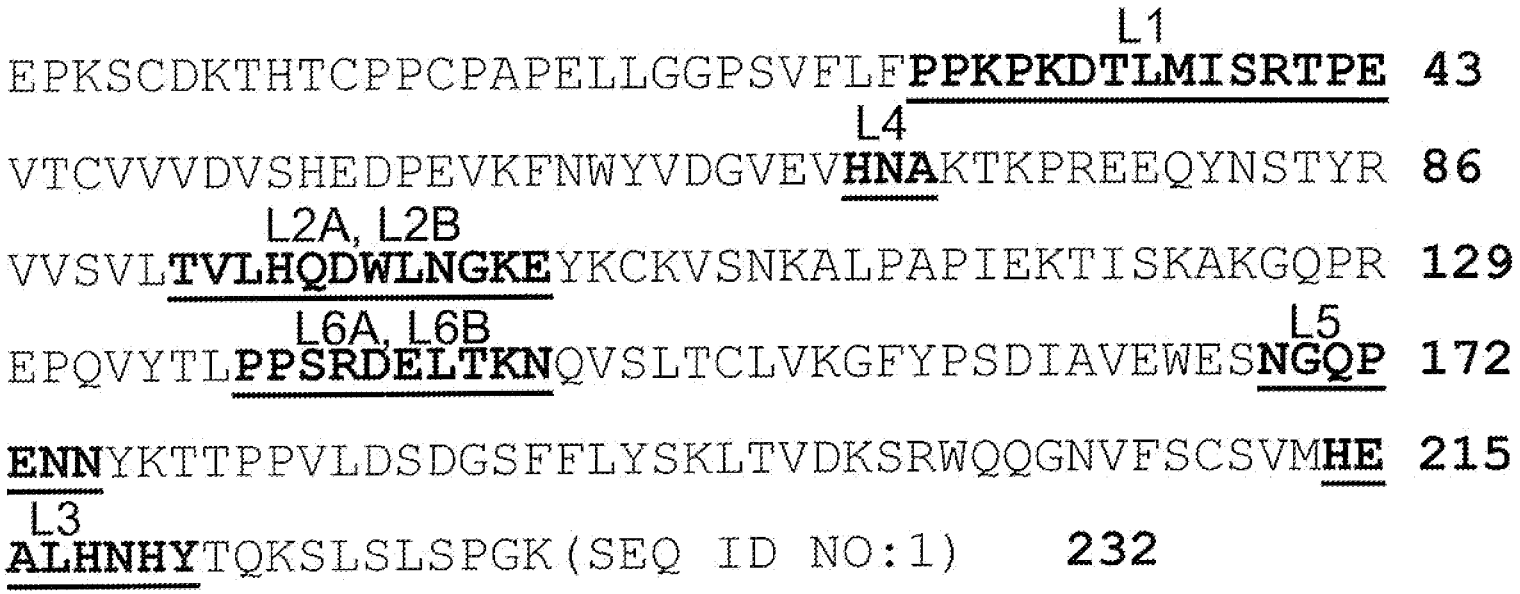
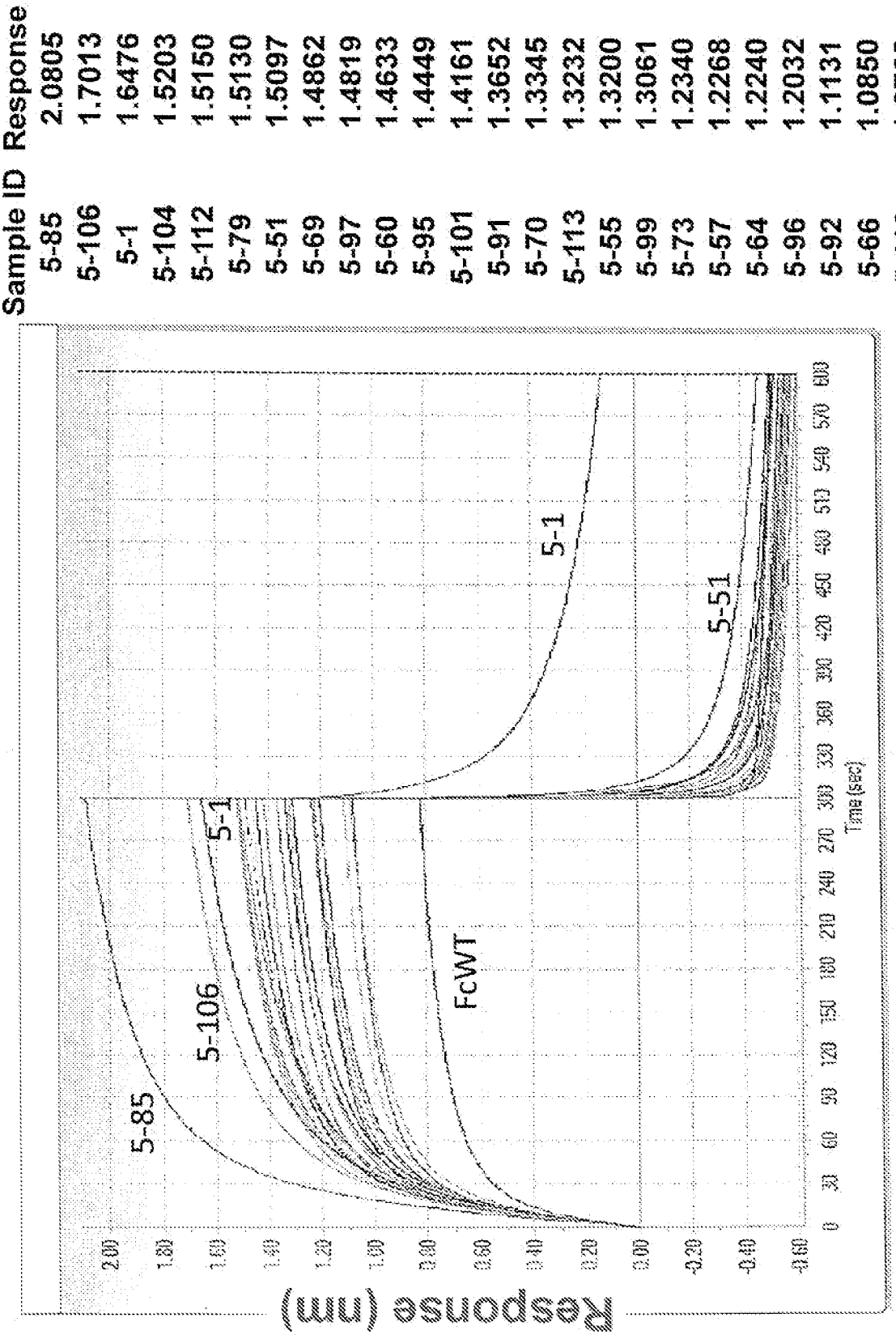


Figure 1



L1: L*MISR*T (SEQ ID NO:549) → L**(19R)$_6$**T (SEQ ID NO:550)
L2A: T*VL*HQDWL (SEQ ID NO:551) →T**(19R)$_6$**HQDWL(SEQ ID NO:552)
L2B: T*VL*HQDWL (SEQ ID NO:551) →T**GGC(19R)$_6$CGG**HQDWL (SEQ ID NO:553)
L3: MH*EAL*H*M*HY(SEQ ID NO:554) → MH**(19R)$_5$**H**(19R)$_1$**HY (SEQ ID NO:555)
L4: EVHN¦A (SEQ ID NO:556) → EVHN**GGC(19R)$_6$CGG**A (SEQ ID NO:557)
L5: N¦GQPEN (SEQ ID NO:558) → N**GGC(19R)$_6$CGG**GQPEN (SEQ ID NO:559)
L6A: DEL¦TKNQ (SEQ ID NO:560) →DEL**GGC(20R)$_8$CGG**TKNQ (SEQ ID NO:561)
L6B: DEL¦TKNQ (SEQ ID NO:560) →DEL**GGC(19R)$_8$CGG**TKNQ (SEQ ID NO:562)

Figure 2



Sample ID	Response
5-85	2.0805
5-106	1.7013
5-1	1.6476
5-104	1.5203
5-112	1.5150
5-79	1.5130
5-51	1.5097
5-69	1.4862
5-97	1.4819
5-60	1.4633
5-95	1.4449
5-101	1.4161
5-91	1.3652
5-70	1.3345
5-113	1.3232
5-55	1.3200
5-99	1.3061
5-73	1.2340
5-57	1.2268
5-64	1.2240
5-96	1.2032
5-92	1.1131
5-66	1.0850
5-110	1.0768
FcWT	0.8203

Figure 3

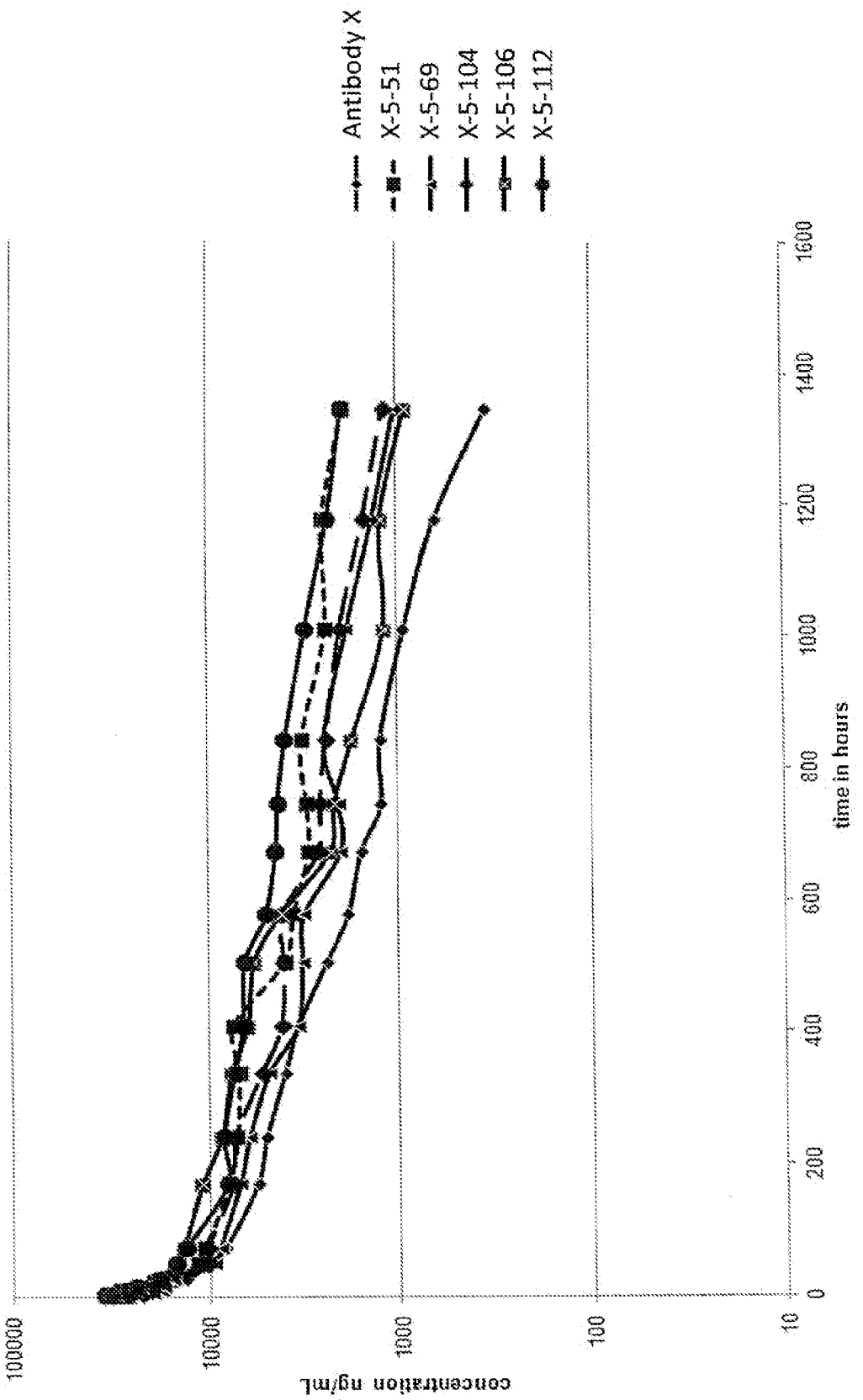

Antibody X
X-5-51
X-5-69
X-5-104
X-5-106
X-5-112
concentration ng/mL
100000
10000
1000
100
10
0
200
400
600
800
1000
1200
1400
1600
time in hours

Figure 4

	385 390
Wild type sequence:	WESNGQPENNYKT (SEQ ID NO:563)
Original variant 5-1:	WESNGGCGMPIEFCGGGQPENNYKT (SEQ ID NO:564)
Variant 5-1-1:	WEGGCGMPIEFCGGSNGQPENNYKT (SEQ ID NO:565)
Variant 5-1-2:	WESGGCGMPIEFCGGNGQPENNYKT (SEQ ID NO:566)
Variant 5-1-3:	WESNGGGCGMPIEFCGGQPENNYKT (SEQ ID NO:567)
Variant 5-1-4:	WESNGQGGCGMPIEFCGGPENNYKT (SEQ ID NO:568)
Variant 5-1-5:	WESNGQPGGCGMPIEFCGGENNYKT (SEQ ID NO:569)
Variant 5-1-6:	WESNGQPEGGCGMPIEFCGGNNYKT (SEQ ID NO:570)
Variant 5-1-7:	WESNGQPENGGCGMPIEFCGGNYKT (SEQ ID NO:571)
Variant 5-1-8:	WESNGQPENNGGCGMPIEFCGGYKT (SEQ ID NO:572)
Variant 5-1-9:	WESGGCGMPIEFCGGPENNYKT (SEQ ID NO:573)
Variant 5-1-10:	WESGGGCGMPIEFCGGGPENNYKT (SEQ ID NO:574)

Figure 5

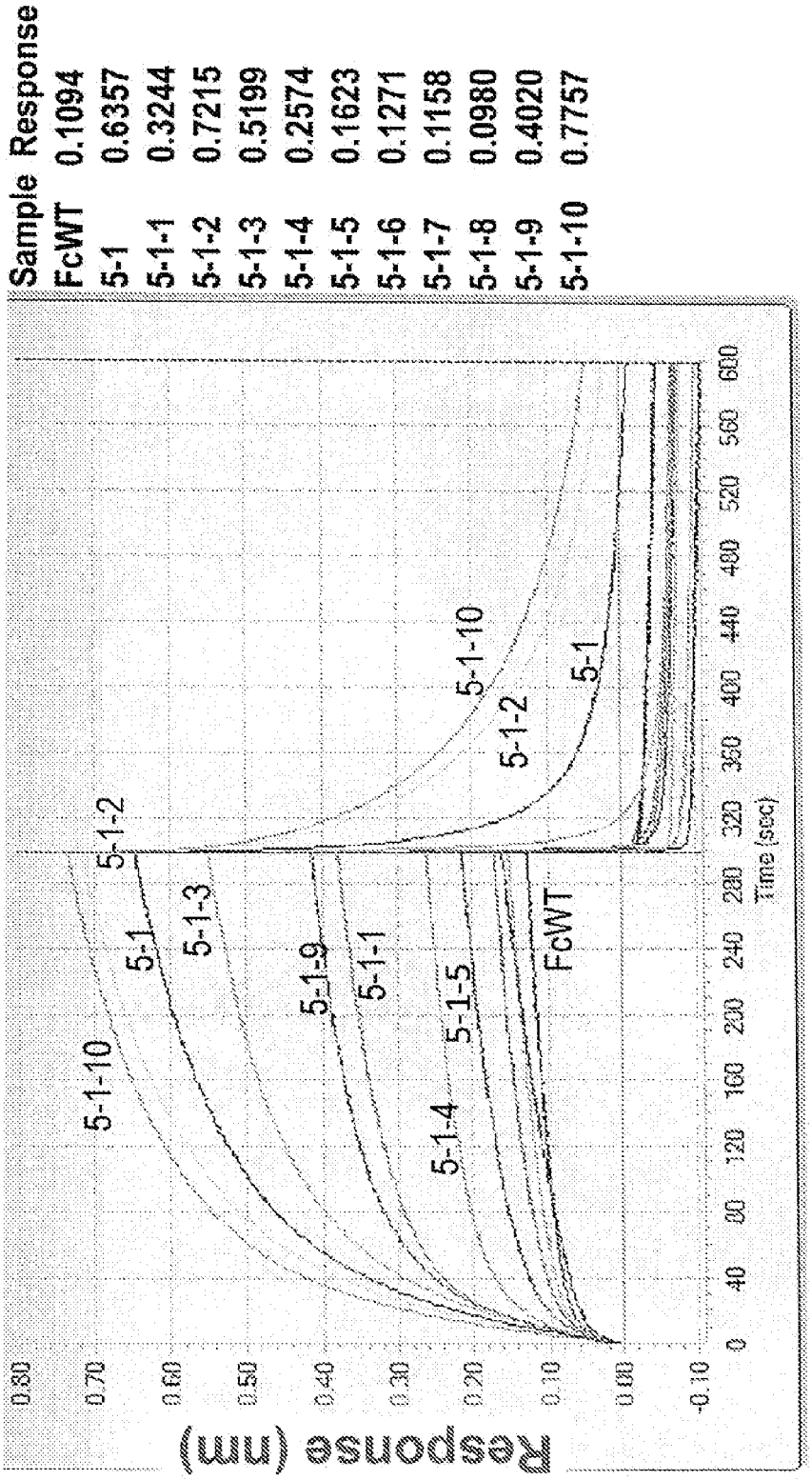

Sample Response
FcWT 0.1094
5-1 0.6357
5-1-1 0.3244
5-1-2 0.7215
5-1-3 0.5199
5-1-4 0.2574
5-1-5 0.1623
5-1-6 0.1271
5-1-7 0.1158
5-1-8 0.0980
5-1-9 0.4020
5-1-10 0.7757
Response (nm)
Time (sec)
5-1-10
5-1
5-1-3
5-1-2
5-1-9
5-1-1
5-1-5
5-1-4
FcWT

Figure 6

Sample	Response
5y-5	0.5372
5y-27	0.5199
5y-153	0.5151
5y-119	0.4892
5y-132	0.4866
5y-149	0.4714
5y-91	0.4576
5y-87	0.4486
5y-8	0.4304
5y-127	0.4265
5y-79	0.4263
5y-111	0.4066
5y-135	0.4056
5y-156	0.4047
5y-2	0.4042
5y-147	0.4035
5y-134	0.4019
5y-110	0.3969
5y-86	0.3956
5y-14	0.3889
5y-120	0.3878
5y-114	0.3826
5y-38	0.3711
5y-98	0.3625
5y-109	0.3611
5y-13	0.3332
5y-102	0.333
5y-45	0.3122
FcWT	0.1443

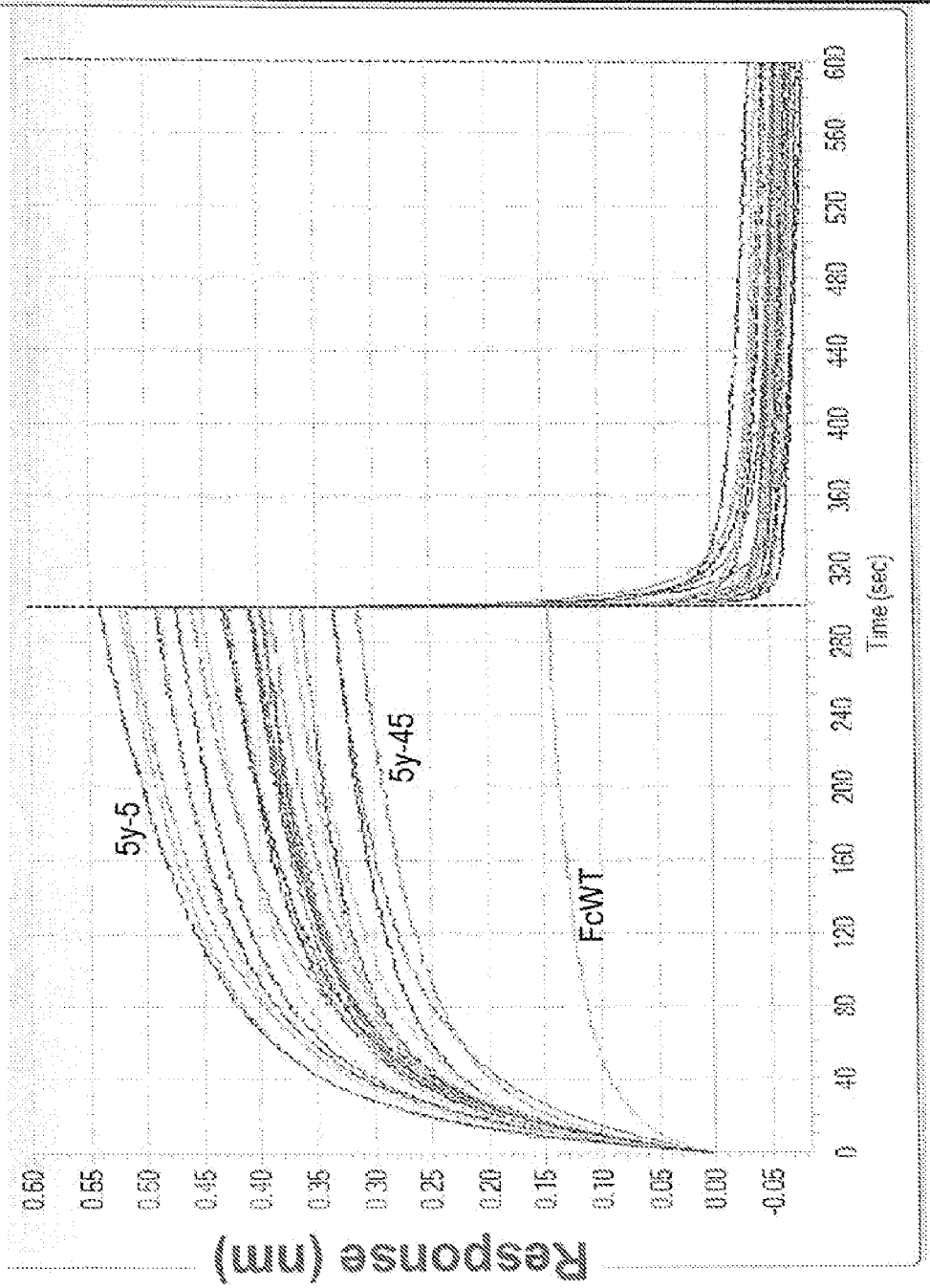


Figure 7

Sample	Response
8y-49	0.7697
8y-45	0.7648
8y-59	0.7609
8y-57	0.7233
10y-34	0.7132
8y-20	0.7089
10y-14	0.6991
8y-50	0.6911
8y-47	0.677
10y-18	0.676
10y-29	0.6745
10y-20	0.6668
10y-44	0.6326
8y-11	0.6029
10y-23	0.6027
8y-5	0.5302
10y-31	0.4954
8y-22	0.4925
FcWT	0.1407

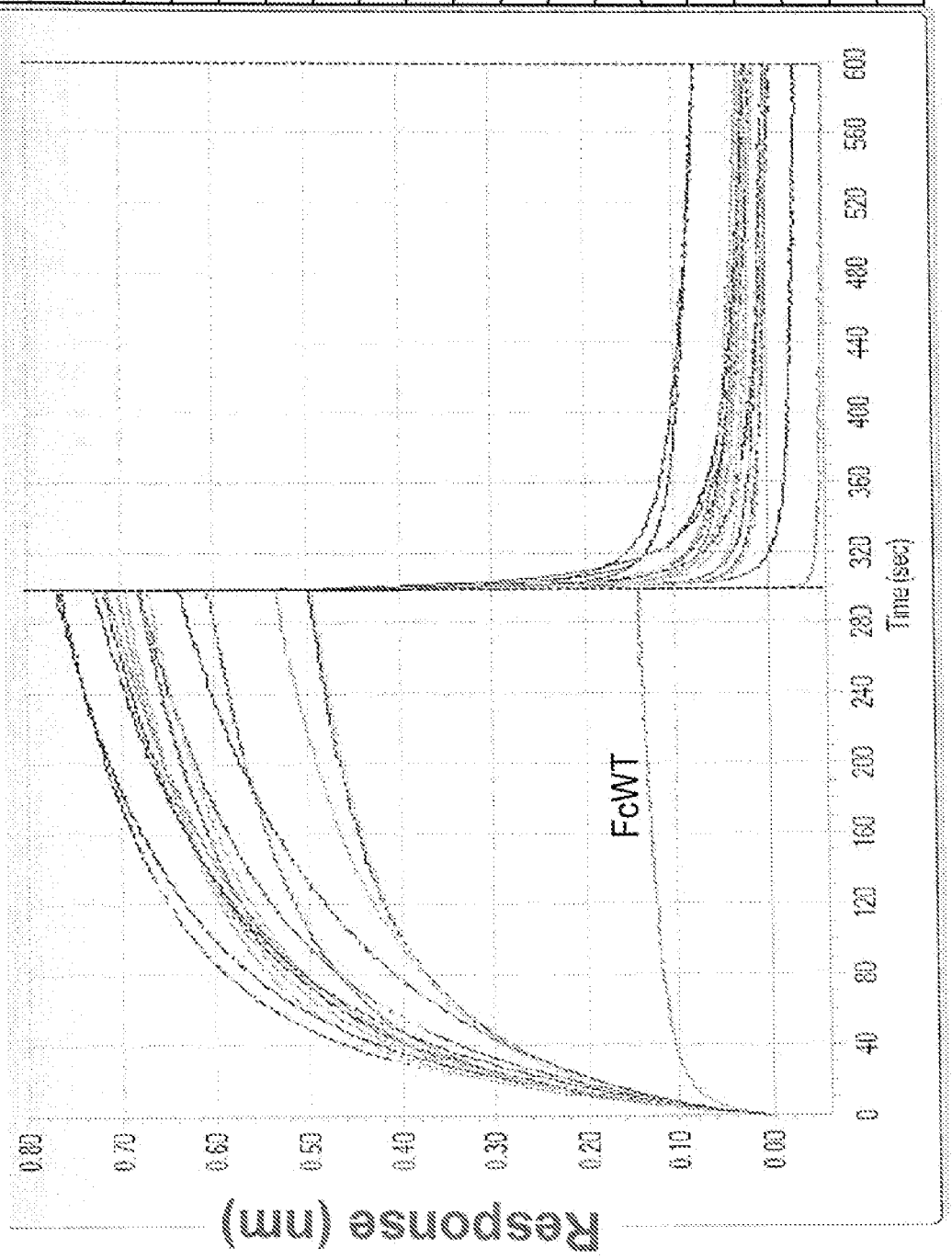


Figure 8

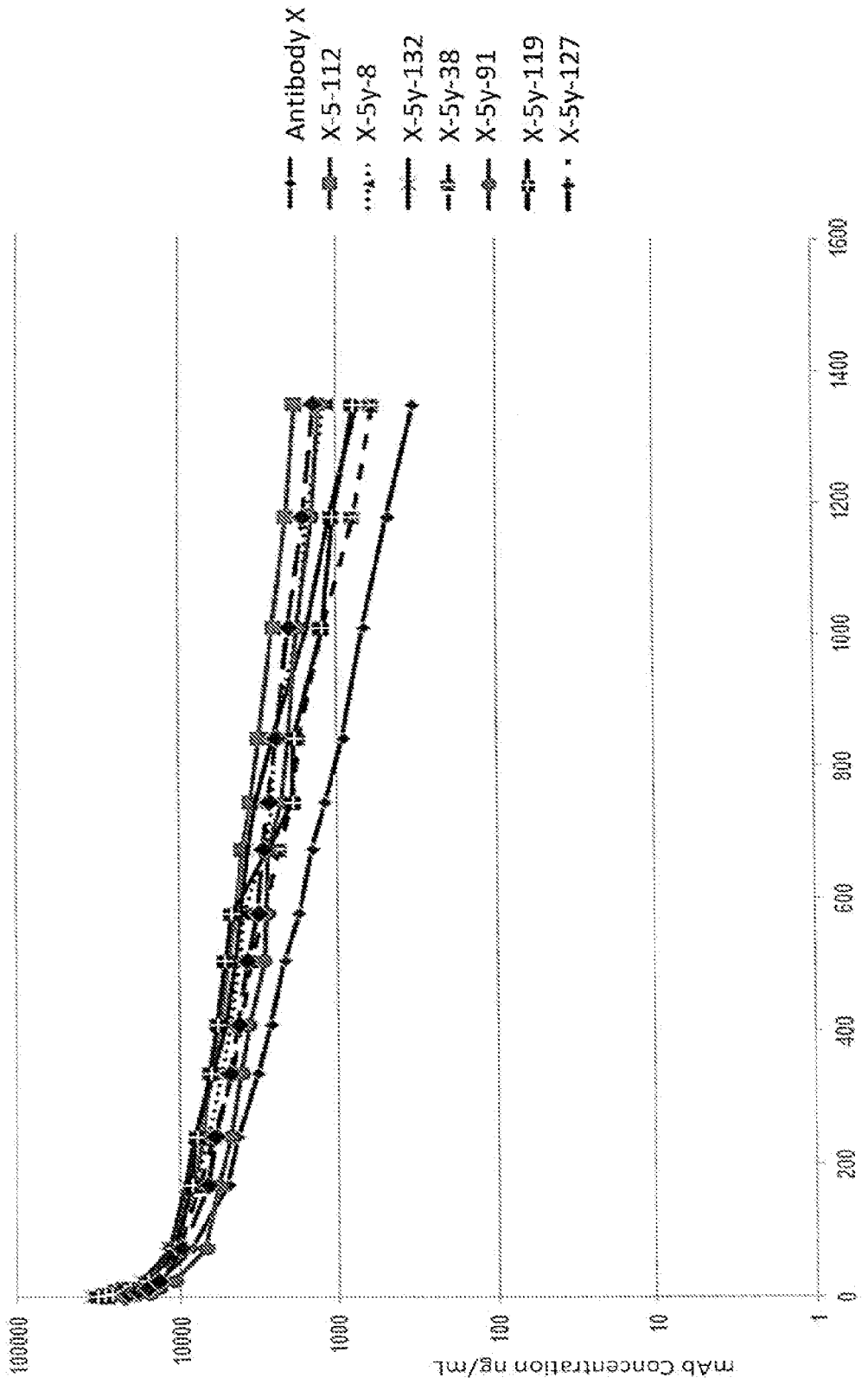

Antibody X
X-5-112
X-5y-8
X-5y-132
X-5y-38
X-5y-91
X-5y-119
X-5y-127
mAb Concentration ng/mL
100000
10000
1000
100
10
1
0
200
400
600
800
1000
1200
1400
1600
Time in hours

Figure 9

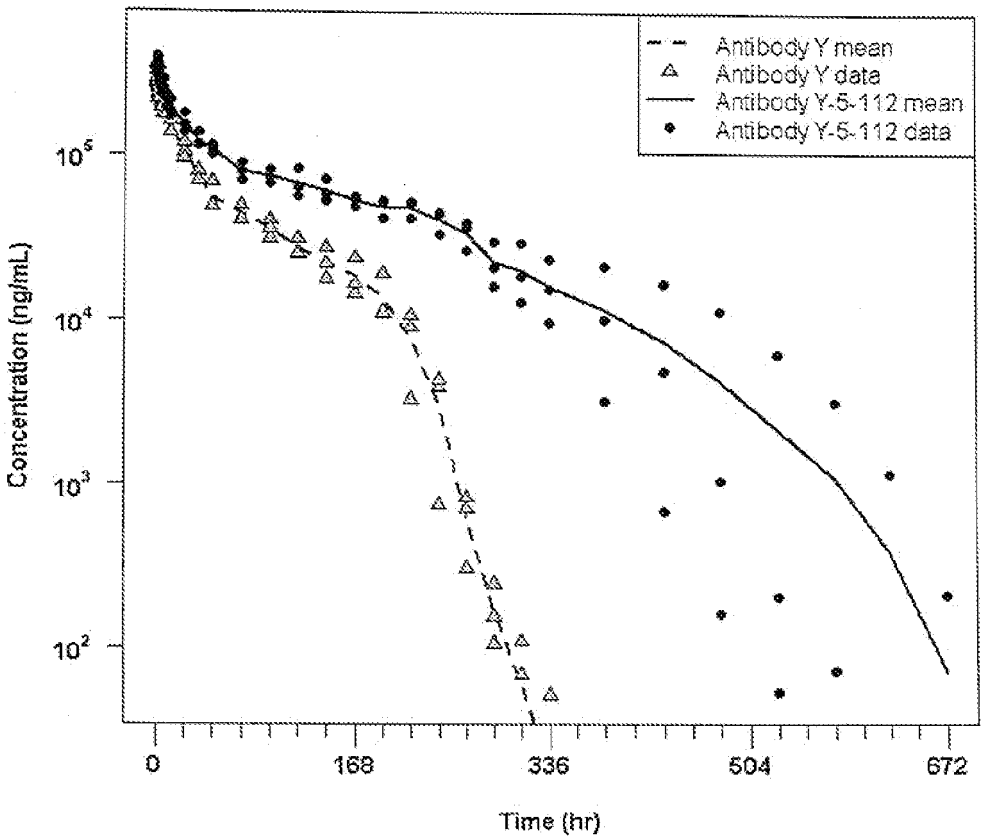

Antibody Y mean
Antibody Y data
Antibody Y-5-112 mean
Antibody Y-5-112 data
Concentration (ng/mL)
10^5
10^4
10^3
10^2
0
168
336
504
672
Time (hr)

Figure 10