Ligand: BG505 SOSIP.664-his (2G12/ SEC purified)

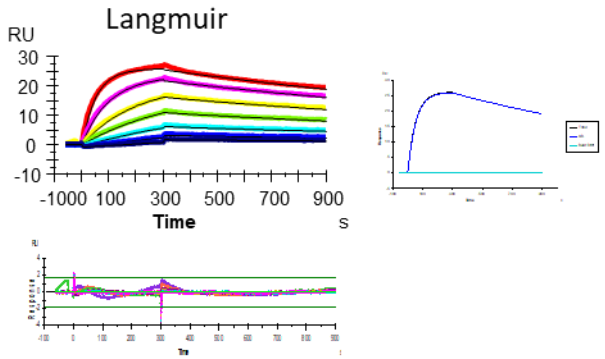
Analyte: PGT145 fab
PGT151 fab

Sensor chip: CM5-anti-his Ab

Biacore T200

PGT145 fab titration against BG505 SOSIP.664-2G12-purified

CM5-anti-his

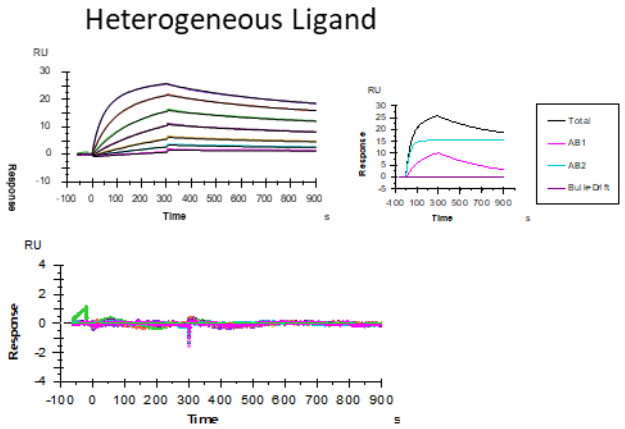


Langmuir local Rmax

MA	ML	RL	(MA/ML)*RL	Rmax	Sm
50	356	257	36.1	27	0.75

Curve	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	1.83E+04	5.05E-04	2.76E-08			1.99E+14				0.0505	1
Cycle: 4 1000 nM				27	1.00E-06		50	7.32E+14	0.1862		
Cycle: 5 500 nM				25	5.00E-07		50	7.32E+14	0.4255		
Cycle: 6 250 nM				23	2.50E-07		50	7.32E+14	-0.0503		
Cycle: 7 125 nM				24	1.25E-07		50	7.32E+14	-0.04923		
Cycle: 8 62.5 nM				24	6.25E-08		50	7.32E+14	-0.4376		
Cycle: 9 31.2 nM				23	3.12E-08		50	7.32E+14	-0.7111		
Cycle: 10 15.6 nM				22	1.56E-08		50	7.32E+14	-0.9752		

Curve	ka (1/Ms)	T(ka)	kd (1/s)	T(kd)	Rmax (RU	T(Rmax)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.83E+04	8.90E+02	5.05E-04	1.10E+03				1.99E+14	0.011			
Cycle: 4 1000 nM					26.6	5.10E+03	1.00E-06			50	0.2	25
Cycle: 5 500 nM					24.6	3.20E+03	5.00E-07			50	0.4	64
Cycle: 6 250 nM					23.2	1.70E+03	2.50E-07			50	-0.1	-9.6
Cycle: 7 125 nM					23.8	1.20E+03	1.25E-07			50	0	-11
Cycle: 8 62.5 nM					23.7	9.30E+02	6.25E-08			50	-0.4	-97
Cycle: 9 31.2 nM					23	7.10E+02	3.12E-08			50	-0.7	-160
Cycle: 10 15.6 nM					21.8	4.50E+02	1.56E-08			50	-1	-220



Heterogeneous Ligand fit

MA	ML	RL	(MA/ML)*RL	Rmax 1	Sm 1	Rmax 2	Sm 2	Sm1+Sm2
50	356	257	36.1	17	0.47	16	0.44	0.91

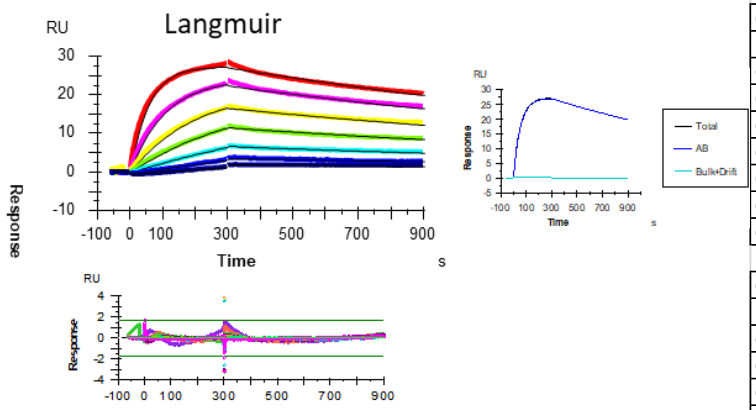
Curve	ka1 (1/Ms	kd1 (1/s)	KD1 (M)	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	Rmax1 (RU	Rmax2 (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	4.36E+03	1.96E-03	4.49E-07	2.83E+04	6.17E-08	2.18E-12				1.44E+09				0.012	N/A
Cycle: 4 1000 nM							17	16	1.00E-06		50	5.31E+09	0.2013		
Cycle: 5 500 nM							22	14	5.00E-07		50	5.31E+09	-0.2257		
Cycle: 6 250 nM							27	12	2.50E-07		50	5.31E+09	-0.3668		
Cycle: 7 125 nM							35	10	1.25E-07		50	5.31E+09	-0.4511		
Cycle: 8 62.5 nM							40	10	6.25E-08		50	5.31E+09	-0.6737		
Cycle: 9 31.2 nM							44	10	3.12E-08		50	5.31E+09	-0.7351		
Cycle: 10 15.6 nM							28	11	1.56E-08		50	5.31E+09	-0.7907		

Curve	T(ka1)	T(kd1)	T(ka2)	T(kd2)	Rmax1 (RU	T(Rmax1)	Rmax2 (RU	T(Rmax2)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.50E+02	3.40E+02	9.40E+02	0.30						1.44E+09	2.2			
Cycle: 4 1000 nM					17	330	16	850	1.00E-06			50	0.2	40
Cycle: 5 500 nM					22	220	14	840	5.00E-07			50	-0.2	-59
Cycle: 6 250 nM					27	190	12	800	2.50E-07			50	-0.4	-1.20E+02
Cycle: 7 125 nM					35	170	10	650	1.25E-07			50	-0.5	-1.70E+02
Cycle: 8 62.5 nM					40	150	10	510	6.25E-08			50	-0.7	-2.50E+02
Cycle: 9 31.2 nM					44	130	10	390	3.12E-08			50	-0.7	-2.80E+02
Cycle: 10 15.6 nM					28	59	11	290	1.56E-08			50	-0.8	-3.00E+02

Fc 2-1

PGT145 fab titration against BG505 SOSIP.664-2G12-purified

CM5-anti-his

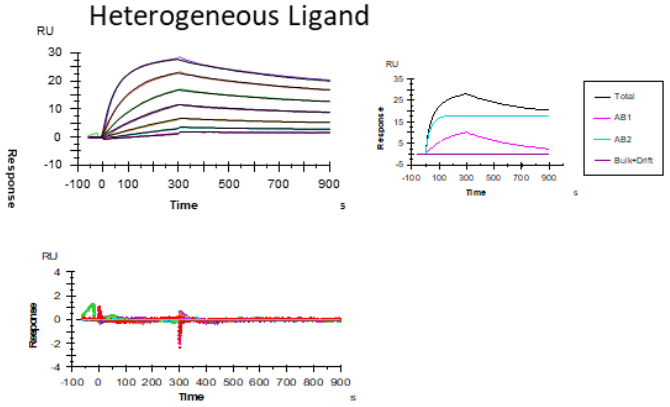


Langmuir local Rmax

MA	ML	RL	(MA/ML)*RL	Rmax	Sm
50	356	267	37.5	28	0.74

Curve	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (RU)	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	1.77E+04	5.12E-04	2.90E-08			6.46E+14				0.0492	1
Cycle: 4 1000 nM				28	1.00E-06		50	2.38E+15	0.178		
Cycle: 5 500 nM				25	5.00E-07		50	2.38E+15	0.4826		
Cycle: 6 250 nM				24	2.50E-07		50	2.38E+15	0.2468		
Cycle: 7 125 nM				25	1.25E-07		50	2.38E+15	0.07056		
Cycle: 8 62.5 nM				25	6.25E-08		50	2.38E+15	-0.2548		
Cycle: 9 31.2 nM				25	3.12E-08		50	2.38E+15	-0.5294		
Cycle: 10 15.6 nM				26	1.56E-08		50	2.38E+15	-0.7408		

Curve	ka (1/Ms)	T(ka)	kd (1/s)	T(kd)	Rmax (RU	T(Rmax)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.77E+04	9.20E+02	5.12E-04	1.10E+03				6.46E+14	6.0E-03			
Cycle: 4 1000 nM					27.9	5.30E+03	1.00E-06			50	0.2	24
Cycle: 5 500 nM					25.3	3.20E+03	5.00E-07			50	0.5	74
Cycle: 6 250 nM					24.2	1.70E+03	2.50E-07			50	0.2	48
Cycle: 7 125 nM					25.2	1.20E+03	1.25E-07			50	0.1	15
Cycle: 8 62.5 nM					25.3	9.60E+02	6.25E-08			50	-0.3	-57
Cycle: 9 31.2 nM					25.4	7.50E+02	3.12E-08			50	-0.5	-1.20E+02
Cycle: 10 15.6 nM					25.7	5.00E+02	1.56E-08			50	-0.7	-1.70E+02



Heterogeneous Ligand fit

MA	ML	RL	(MA/ML)*RL	Rmax 1	Sm 1	Rmax 2	Sm 2	Sm1+Sm2
50	356	267	37.5	16	0.43	16	0.43	0.85

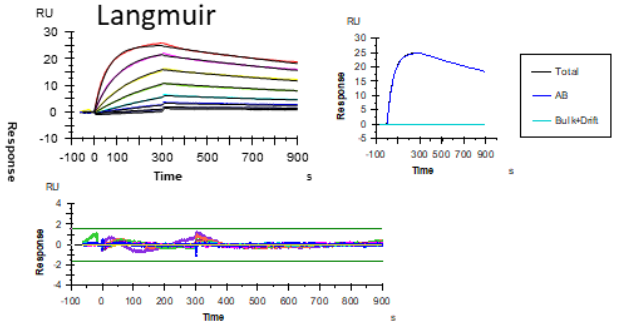
Curve	ka1 (1/Ms	kd1 (1/s)	KD1 (M)	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	Rmax1 (RU	Rmax2 (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	2.76E+04	4.76E-07	1.73E-11	6.43E+03	1.82E-03	2.83E-07				8.45E+08				0.0168	N/A
Cycle: 4 1000 nM							16	16	1.00E-06		50	3.11E+09	0.1866		
Cycle: 5 500 nM							14	18	5.00E-07		50	3.11E+09	0.06493		
Cycle: 6 250 nM							12	21	2.50E-07		50	3.11E+09	-0.0072		
Cycle: 7 125 nM							11	25	1.25E-07		50	3.11E+09	0.04564		
Cycle: 8 62.5 nM							11	27	6.25E-08		50	3.11E+09	-0.2837		
Cycle: 9 31.2 nM							11	23	3.12E-08		50	3.11E+09	-0.4978		
Cycle: 10 15.6 nM							12	14	1.56E-08		50	3.11E+09	-0.671		

Curve	T(ka1)	T(kd1)	T(ka2)	T(kd2)	Rmax1 (RU	T(Rmax1)	Rmax2 (RU	T(Rmax2)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.30E+02	4.10E+02	1.10E+03	0.66						1.14E+09	2.7			
Cycle: 4 1000 nM					20	230	18	1200	1.00E-06			50	0.1	12
Cycle: 5 500 nM					26	180	15	1200	5.00E-07			50	-0.2	-47
Cycle: 6 250 nM					32	150	13	1100	2.50E-07			50	-0.2	-74
Cycle: 7 125 nM					41	140	12	910	1.25E-07			50	-0.2	-69
Cycle: 8 62.5 nM					46	130	11	720	6.25E-08			50	-0.4	-1.40E+02
Cycle: 9 31.2 nM					48	110	11	520	3.12E-08			50	-0.6	-2.10E+02
Cycle: 10 15.6 nM					32	57	12	350	1.56E-08			50	-0.7	-2.50E+02

Fc 3-1

PGT145 fab titration against BG505 SOSIP.664-2G12-purified

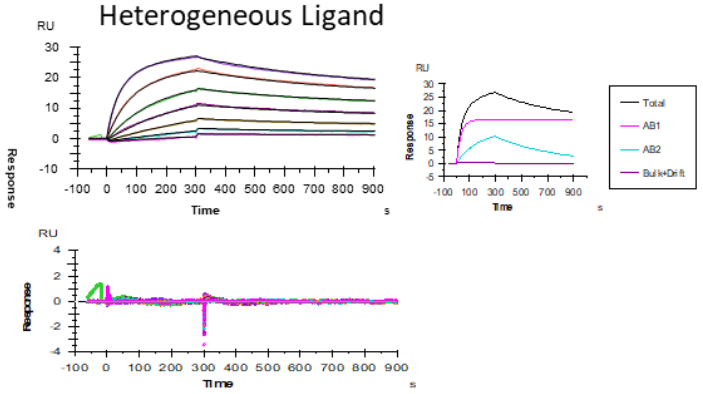
CM5-anti-his



Langmuir local Rmax					
MA	ML	RL	(MA/ML)*RL	Rmax	Sm
50	356	253	35.5	25.8	0.73

Curve	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (RU)	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	1.71E+04	5.11E-04	2.99E-08			6.50E+12				0.0322	1
Cycle: 4 1000 nM				26	1.00E-06		50	2.40E+13	0.1629		
Cycle: 5 500 nM				24	5.00E-07		50	2.40E+13	0.3124		
Cycle: 6 250 nM				23	2.50E-07		50	2.40E+13	0.01968		
Cycle: 7 125 nM				24	1.25E-07		50	2.40E+13	-0.2292		
Cycle: 8 62.5 nM				25	6.25E-08		50	2.40E+13	-0.5513		
Cycle: 9 31.2 nM				25	3.12E-08		50	2.40E+13	-0.678		
Cycle: 10 15.6 nM				25	1.56E-08		50	2.40E+13	-0.8243		
Cycle: 11 7.8 nM				29	7.80E-09		50	2.40E+13	-0.8991		

Curve	ka (1/Ms)	T(ka)	kd (1/s)	T(kd)	Rmax (RU	T(Rmax)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.71E+04	1.00E+03	5.11E-04	1.30E+03				6.50E+12	0.19			
Cycle: 4 1000 nM					26	6.10E+03	1.00E-06			50	0.2	27
Cycle: 5 500 nM					24	3.60E+03	5.00E-07			50	0.3	59
Cycle: 6 250 nM					23	1.90E+03	2.50E-07			50	0	4.8
Cycle: 7 125 nM					24	1.40E+03	1.25E-07			50	-0.2	-62
Cycle: 8 62.5 nM					25	1.10E+03	6.25E-08			50	-0.6	-1.50E+02
Cycle: 9 31.2 nM					26	8.60E+02	3.12E-08			50	-0.7	-1.90E+02
Cycle: 10 15.6 nM					25	5.80E+02	1.56E-08			50	-0.8	-2.30E+02
Cycle: 11 7.8 nM					29	3.80E+02	7.80E-09			50	-0.9	-2.50E+02



Heterogeneous Ligand fit								
MA	ML	RL	(MA/ML)*RL	Rmax 1	Sm 1	Rmax 2	Sm 2	Sm1+Sm2
50	356	253	35.5	17	0.48	18	0.51	1.0

Curve	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	ka1 (1/Ms	kd1 (1/s)	KD1 (M)	Rmax1 (RU	Rmax2 (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	4308	0.002133	4.95E-07	3.01E+04	7.67E-08	2.55E-12				1.01E+09				0.0168	N/A
Cycle: 4 1000 nM							17	18	1.00E-06		50	3.72E+09	0.1804		
Cycle: 5 500 nM							15	22	5.00E-07		50	3.72E+09	-0.1694		
Cycle: 6 250 nM							12	27	2.50E-07		50	3.72E+09	-0.4885		
Cycle: 7 125 nM							11	35	1.25E-07		50	3.72E+09	-0.3164		
Cycle: 8 62.5 nM							10	39	6.25E-08		50	3.72E+09	-0.5569		
Cycle: 9 31.2 nM							9.0	42	3.12E-08		50	3.72E+09	-0.7786		
Cycle: 10 15.6 nM							8.9	32	1.56E-08		50	3.72E+09	-0.9732		

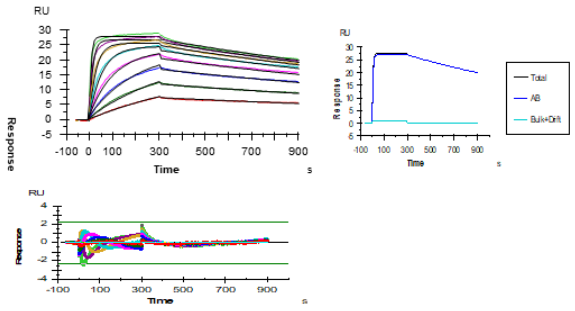
Curve	T(ka1)	T(kd1)	T(ka2)	T(kd2)	Rmax1 (RU	T(Rmax1)	Rmax2 (RU	T(Rmax2)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	9.00E+02	0.45	1.30E+02	3.20E+02						1.01E+09	8.3			
Cycle: 4 1000 nM					17	900	18	280	1.00E-06			50	0.2	34
Cycle: 5 500 nM					15	930	22	190	5.00E-07			50	-0.2	-39
Cycle: 6 250 nM					12	870	27	160	2.50E-07			50	-0.5	-1.40E+02
Cycle: 7 125 nM					11	680	35	150	1.25E-07			50	-0.3	-98
Cycle: 8 62.5 nM					10	540	39	130	6.25E-08			50	-0.6	-1.80E+02
Cycle: 9 31.2 nM					9.0	380	42	110	3.12E-08			50	-0.8	-2.50E+02
Cycle: 10 15.6 nM					8.9	240	32	60	1.56E-08			50	-1	-3.10E+02

Fc 4-1

PGT145 fab titration against BG505 SOSIP.664-2G12-purified

CM5-anti-his

Langmuir



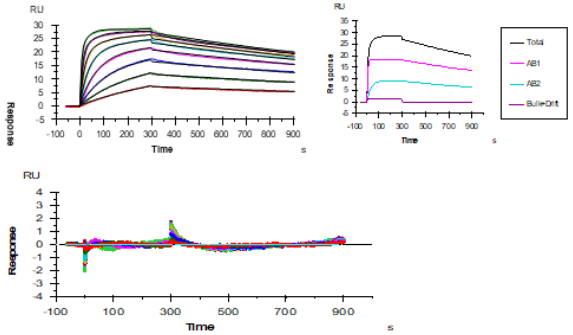
Langmuir local Rmax

MA	ML	RL	(MA/ML)*RL	Rmax	Sm
50	356	232	32.6	27	0.83

Curve	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (RU)	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	1.43E+05	5.07E-04	3.54E-09			6.20E+20				0.152	1
Cycle: 2 1000 nM				27	1.00E-06		50	2.28E+21	0.81		
Cycle: 3 500 nM				26	5.00E-07		50	2.28E+21	0.60		
Cycle: 4 250 nM				25	2.50E-07		50	2.28E+21	0.65		
Cycle: 5 125 nM				24	1.25E-07		50	2.28E+21	1.09		
Cycle: 6 62.5 nM				23	6.25E-08		50	2.28E+21	1.56		
Cycle: 7 31.2 nM				24	3.12E-08		50	2.28E+21	1.38		
Cycle: 8 15.6 nM				26	1.56E-08		50	2.28E+21	0.81		
Cycle: 9 7.8 nM				27	7.80E-09		50	2.28E+21	0.38		

Curve	ka (1/Ms)	T(ka)	kd (1/s)	T(kd)	Rmax (RU)	T(Rmax)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.43E+05	7.70E+02	5.07E-04	9.00E+02				6.20E+20	2.20E-04			
Cycle: 2 1000 nM					27	3.80E+03	1.00E-06			50	0.8	80
Cycle: 3 500 nM					27	3.70E+03	5.00E-07			50	0.6	59
Cycle: 4 250 nM					25	3.50E+03	2.50E-07			50	0.6	64
Cycle: 5 125 nM					24	3.30E+03	1.25E-07			50	1.1	100
Cycle: 6 62.5 nM					23	2.30E+03	6.25E-08			50	1.6	160
Cycle: 7 31.2 nM					24	1.40E+03	3.12E-08			50	1.4	160
Cycle: 8 15.6 nM					26	9.60E+02	1.56E-08			50	0.8	100
Cycle: 9 7.8 nM					27	7.40E+02	7.80E-09			50	0.4	49

Heterogeneous Ligand



Heterogeneous Ligand fit

MA	ML	RL	(MA/ML)*RL	Rmax1	Sm 1	Rmax2	Sm 2	Sm1+Sm2
50	356	232	32.6	18	0.55	9.2	0.28	0.83

Curve	ka1 (1/Ms	kd1 (1/s)	KD1 (M)	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	Rmax1 (RU	Rmax2 (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	2.14E+05	4.83E-04	2.25E-09	3.43E+04	6.28E-04	1.83E-08				1.58E+09				0.0465	N/A
Cycle: 2 1000 nM							18	9.2	1.00E-06		50	5.83E+09	1.2		
Cycle: 3 500 nM							19	8.0	5.00E-07		50	5.83E+09	1.2		
Cycle: 4 250 nM							18	8.0	2.50E-07		50	5.83E+09	1.4		
Cycle: 5 125 nM							18	8.4	1.25E-07		50	5.83E+09	1.2		
Cycle: 6 62.5 nM							19	6.5	6.25E-08		50	5.83E+09	0.76		
Cycle: 7 31.2 nM							20	0.42	3.12E-08		50	5.83E+09	0.66		
Cycle: 8 15.6 nM							20	0.08	1.56E-08		50	5.83E+09	0.55		
Cycle: 9 7.8 nM							19	2.3	7.80E-09		50	5.83E+09	0.31		

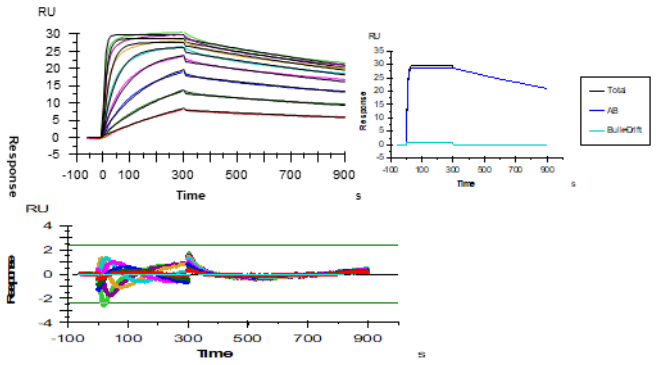
Curve	T(ka1)	T(kd1)	T(ka2)	T(kd2)	Rmax1 (RU	T(Rmax1)	Rmax2 (RU	T(Rmax2)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	5.50E+02	6.40E+02	2.00E+02	2.50E+02						1.58E+09	7.8			
Cycle: 2 1000 nM					18	420	9.2	220	1.00E-06			50	1.2	180
Cycle: 3 500 nM					19	560	8.0	240	5.00E-07			50	1.2	180
Cycle: 4 250 nM					18	590	8.0	270	2.50E-07			50	1.4	190
Cycle: 5 125 nM					18	510	8.4	190	1.25E-07			50	1.2	150
Cycle: 6 62.5 nM					19	370	6.5	64	6.25E-08			50	0.8	90
Cycle: 7 31.2 nM					20	820	0.42	6.9	3.12E-08			50	0.7	100
Cycle: 8 15.6 nM					20	290	0.08	0.28	1.56E-08			50	0.5	110
Cycle: 9 7.8 nM					19	87	2.3	2.0	7.80E-09			50	0.3	69

Fc 2-1

PGT145 fab titration against BG505 SOSIP.664-2G12-purified

CM5-anti-his

Langmuir



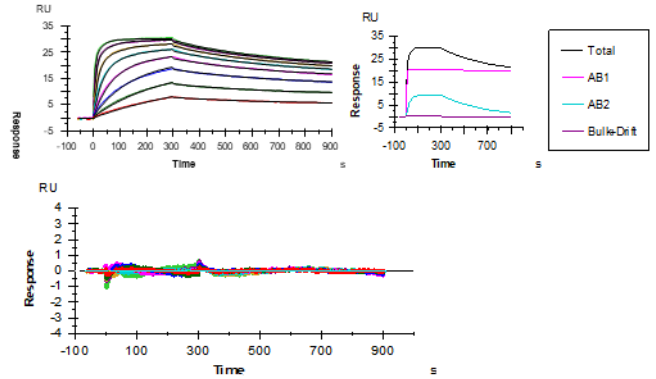
Langmuir local Rmax

MA	ML	RL	(MA/ML)*RL	Rmax	Sm
50	356	242	34.0	29	0.85

Curve	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	1.51E+05	5.17E-04	3.43E-09			4.11E+20				0.166	1
Cycle: 2 1000 nM				29	1.00E-06		50	1.51E+21	1.05		
Cycle: 3 500 nM				28	5.00E-07		50	1.51E+21	0.93		
Cycle: 4 250 nM				27	2.50E-07		50	1.51E+21	0.80		
Cycle: 5 125 nM				26	1.25E-07		50	1.51E+21	1.22		
Cycle: 6 62.5 nM				25	6.25E-08		50	1.51E+21	1.77		
Cycle: 7 31.2 nM				25	3.12E-08		50	1.51E+21	1.68		
Cycle: 8 15.6 nM				27	1.56E-08		50	1.51E+21	1.06		
Cycle: 9 7.8 nM				28	7.80E-09		50	1.51E+21	0.54		

Curve	ka (1/Ms)	T(ka)	kd (1/s)	T(kd)	Rmax (RU	T(Rmax)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.51E+05	7.80E+02	5.17E-04	9.40E+02				4.11E+20	2.30E-04			
Cycle: 2 1000 nM					29	3.80E+03	1.00E-06			50	1.0	100
Cycle: 3 500 nM					28	3.70E+03	5.00E-07			50	0.9	89
Cycle: 4 250 nM					27	3.60E+03	2.50E-07			50	0.8	76
Cycle: 5 125 nM					26	3.40E+03	1.25E-07			50	1.2	110
Cycle: 6 62.5 nM					25	2.50E+03	6.25E-08			50	1.8	170
Cycle: 7 31.2 nM					25	1.40E+03	3.12E-08			50	1.7	190
Cycle: 8 15.6 nM					27	9.90E+02	1.56E-08			50	1.1	130
Cycle: 9 7.8 nM					28	7.60E+02	7.80E-09			50	0.5	66

Heterogeneous Ligand



Heterogeneous Ligand fit

MA	ML	RL	(MA/ML)*RL	Rmax 1	Sm 1	Rmax 2	Sm 2	Sm1+Sm2
50	356	242	34.0	20	0.59	10	0.29	0.88

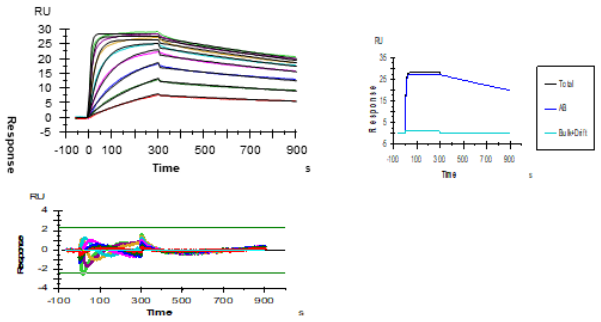
Curve	ka1 (1/Ms	kd1 (1/s)	KD1 (M)	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	Rmax1 (RU	Rmax2 (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	2.57E+05	5.38E-05	2.09E-10	3.43E+04	2.77E-03	8.09E-08				1.40E+21				0.0174	N/A
Cycle: 2 1000 nM							20	10	1.00E-06		50	5.15E+21	0.4231		
Cycle: 3 500 nM							20	10	5.00E-07		50	5.15E+21	0.6837		
Cycle: 4 250 nM							19	12	2.50E-07		50	5.15E+21	0.7044		
Cycle: 5 125 nM							18	15	1.25E-07		50	5.15E+21	0.6203		
Cycle: 6 62.5 nM							16	20	6.25E-08		50	5.15E+21	0.6688		
Cycle: 7 31.2 nM							14	28	3.12E-08		50	5.15E+21	0.819		
Cycle: 8 15.6 nM							13	36	1.56E-08		50	5.15E+21	0.628		
Cycle: 9 7.8 nM							13	45	7.80E-09		50	5.15E+21	0.3039		

Curve	T(ka1)	T(kd1)	T(ka2)	T(kd2)	Rmax1 (RU	T(Rmax1)	Rmax2 (RU	T(Rmax2)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	8.50E+02	54	3.20E+02	5.20E+02						1.40E+21	5.90E-04			
Cycle: 2 1000 nM					20	1.00E+03	10	5.30E+02	1.00E-06			50	0.4	87
Cycle: 3 500 nM					20	1.00E+03	10	6.20E+02	5.00E-07			50	0.7	140
Cycle: 4 250 nM					19	1.00E+03	12	8.00E+02	2.50E-07			50	0.7	160
Cycle: 5 125 nM					18	1.00E+03	15	7.30E+02	1.25E-07			50	0.6	140
Cycle: 6 62.5 nM					16	9.30E+02	20	5.80E+02	6.25E-08			50	0.7	160
Cycle: 7 31.2 nM					14	7.70E+02	28	4.80E+02	3.12E-08			50	0.8	220
Cycle: 8 15.6 nM					13	6.10E+02	36	3.80E+02	1.56E-08			50	0.6	190
Cycle: 9 7.8 nM					13	5.10E+02	45	2.80E+02	7.80E-09			50	0.3	92

PGT145 fab titration against BG505 SOSIP.664-2G12-purified

CM5-anti-his

Langmuir



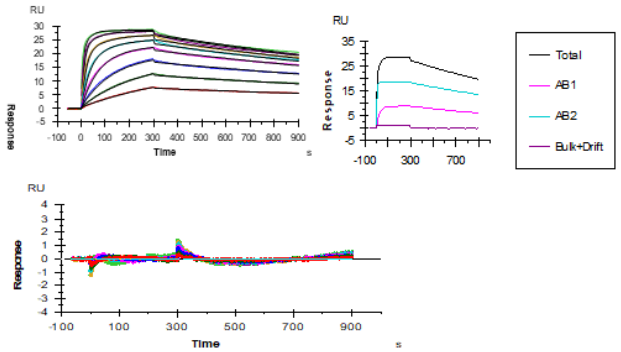
Langmuir local Rmax

MA	ML	RL	(MA/ML)*RL	Rmax	Sm
50	356	227	31.9	27	0.85

Curve	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	1.53E+05	5.19E-04	3.40E-09			3.66E+20				0.146	1
Cycle: 2 1000 nM				27	1.00E-06		50	1.35E+21	1.0		
Cycle: 3 500 nM				27	5.00E-07		50	1.35E+21	0.9		
Cycle: 4 250 nM				26	2.50E-07		50	1.35E+21	0.9		
Cycle: 5 125 nM				24	1.25E-07		50	1.35E+21	1.3		
Cycle: 6 62.5 nM				23	6.25E-08		50	1.35E+21	1.8		
Cycle: 7 31.2 nM				24	3.12E-08		50	1.35E+21	1.5		
Cycle: 8 15.6 nM				26	1.56E-08		50	1.35E+21	1.0		
Cycle: 9 7.8 nM				27	7.80E-09		50	1.35E+21	0.5		

Curve	ka (1/Ms)	T(ka)	kd (1/s)	T(kd)	Rmax (RU	T(Rmax)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.53E+05	7.90E+02	5.19E-04	9.60E+02				3.66E+20	3.70E-04			
Cycle: 2 1000 nM					27	3.90E+03	1.00E-06			50	1	100
Cycle: 3 500 nM					27	3.80E+03	5.00E-07			50	0.9	90
Cycle: 4 250 nM					26	3.70E+03	2.50E-07			50	0.9	89
Cycle: 5 125 nM					24	3.40E+03	1.25E-07			50	1.3	130
Cycle: 6 62.5 nM					23	2.50E+03	6.25E-08			50	1.8	190
Cycle: 7 31.2 nM					24	1.50E+03	3.12E-08			50	1.5	180
Cycle: 8 15.6 nM					26	1.00E+03	1.56E-08			50	1	130
Cycle: 9 7.8 nM					27	7.70E+02	7.80E-09			50	0.5	68

Heterogeneous Ligand



Kd1 and Kd2 swapped

Heterogeneous Ligand fit

MA	ML	RL	(MA/ML)*RL	Rmax 1	Sm 1	Rmax 2	Sm 2	Sm1+Sm2
50	356	227	31.9	19	0.60	9.2	0.29	0.88

Curve	ka1 (1/Ms	kd1 (1/s)	KD1 (M)	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	Rmax1 (RU	Rmax2 (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	3.72E+04	6.32E-04	1.70E-08	2.21E+05	4.99E-04	2.26E-09				1.59E+09				0.0492	N/A
Cycle: 2 1000 nM	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	ka1 (1/Ms	kd1 (1/s)	KD1 (M)	9.2	19	1.00E-06		50	5.86E+09	1.334		
Cycle: 3 500 nM							7.7	19	5.00E-07		50	5.86E+09	1.465		
Cycle: 4 250 nM							7.5	19	2.50E-07		50	5.86E+09	1.589		
Cycle: 5 125 nM							7.7	19	1.25E-07		50	5.86E+09	1.392		
Cycle: 6 62.5 nM							5.5	20	6.25E-08		50	5.86E+09	0.9969		
Cycle: 7 31.2 nM							0.022	21	3.12E-08		50	5.86E+09	0.8316		
Cycle: 8 15.6 nM							0.040	20	1.56E-08		50	5.86E+09	0.7119		
Cycle: 9 7.8 nM							7.9	18	7.80E-09		50	5.86E+09	0.4533		

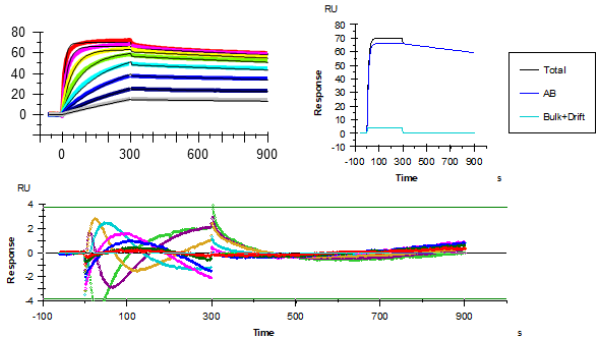
Curve	T(ka1)	T(kd1)	T(ka2)	T(kd2)	Rmax1 (RU	T(Rmax1)	Rmax2 (RU	T(Rmax2)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	1.90E+02	2.40E+02	5.60E+02	6.80E+02						1.59E+09	9.5			
Cycle: 2 1000 nM					9.2	200	19	4.00E+02	1.00E-06			50	1.3	200
Cycle: 3 500 nM					7.7	220	19	5.30E+02	5.00E-07			50	1.5	210
Cycle: 4 250 nM					7.5	240	19	5.80E+02	2.50E-07			50	1.6	210
Cycle: 5 125 nM					7.7	170	19	5.10E+02	1.25E-07			50	1.4	170
Cycle: 6 62.5 nM					5.5	55	20	3.80E+02	6.25E-08			50	1	110
Cycle: 7 31.2 nM					0.022	9.7	21	1.50E+03	3.12E-08			50	0.8	120
Cycle: 8 15.6 nM					0.040	0.15	20	2.90E+02	1.56E-08			50	0.7	130
Cycle: 9 7.8 nM					7.9	7.3	18	86	7.80E-09			50	0.5	98

Fc 4-1

PGT151 fab titration against BG505 SOSIP.664-2G12-purified

Langmuir fit

Local Rmax (**Revised; spikes removed**)



Langmuir local Rmax

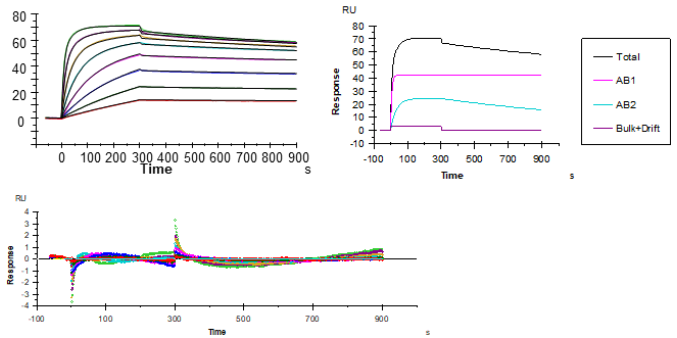
MA	ML	RL	(MA/ML)*RL	Rmax	Sm
50	356	251	35.3	66	1.87

Curve	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value	
	8.68E+04	1.76E-04	2.03E-09			9.13E+21				0.638	2	
Cycle: 5 1000 nM				66	1.00E-06		50	3.37E+22	3.971			
Cycle: 6 500 nM				65	5.00E-07		50	3.37E+22	1.887			
Cycle: 7 250 nM				62	2.50E-07		50	3.37E+22	1.943			
Cycle: 8 125 nM				60	1.25E-07		50	3.37E+22	2.731			
Cycle: 9 62.5 nM				62	6.25E-08		50	3.37E+22	2.753			
Cycle: 10 31.2 nM				69	3.12E-08		50	3.37E+22	1.778			
Cycle: 11 15.6 nM				77	1.56E-08		50	3.37E+22	0.7413			
Cycle: 12 7.8 nM				83	7.80E-09		50	3.37E+22	0.3357			

Curve	ka (1/Ms)	T(ka)	kd (1/s)	T(kd)	Rmax (RU	T(Rmax)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	8.68E+04	2.90E+02	1.76E-04	1.30E+02				9.13E+21	8.80E-05			
Cycle: 5 1000 nM					66	1.50E+03	1.00E-06			50	4	63
Cycle: 6 500 nM					65	1.50E+03	5.00E-07			50	1.9	30
Cycle: 7 250 nM					62	1.40E+03	2.50E-07			50	1.9	29
Cycle: 8 125 nM					60	1.20E+03	1.25E-07			50	2.7	42
Cycle: 9 62.5 nM					62	6.40E+02	6.25E-08			50	2.8	49
Cycle: 10 31.2 nM					69	4.20E+02	3.12E-08			50	1.8	34
Cycle: 11 15.6 nM					77	3.30E+02	1.56E-08			50	0.7	15
Cycle: 12 7.8 nM					83	2.60E+02	7.80E-09			50	0.3	6.8

Heterogeneous Ligand

Local RI



Local Rmax and RI

Heterogeneous Ligand fit

MA	ML	RL	(MA/ML)*RL	Rmax 1	Sm 1	Rmax 2	Sm 2	Sm1+Sm2
50	356	251	35.3	43	1.2	25	0.71	1.9

Curve	ka1 (1/Ms)	kd1 (1/s)	KD1 (M)	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	Rmax1 (RU	Rmax2 (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	1.37E+05	9.11E-08	6.66E-13	2.89E+04	7.32E-04	2.53E-08				2.21E+09				0.105	N/A
Cycle: 5 1000 nM							43	25	1.00E-06		50	8.13E+09	3.7		
Cycle: 6 500 nM							43	23	5.00E-07		50	8.13E+09	2.5		
Cycle: 7 250 nM							43	23	2.50E-07		50	8.13E+09	2.1		
Cycle: 8 125 nM							43	23	1.25E-07		50	8.13E+09	1.1		
Cycle: 9 62.5 nM							41	25	6.25E-08		50	8.13E+09	1.2		
Cycle: 10 31.2 nM							42	30	3.12E-08		50	8.13E+09	1.0		
Cycle: 11 15.6 nM							42	38	1.56E-08		50	8.13E+09	0.38		
Cycle: 12 7.8 nM							45	36	7.80E-09		50	8.13E+09	0.11		

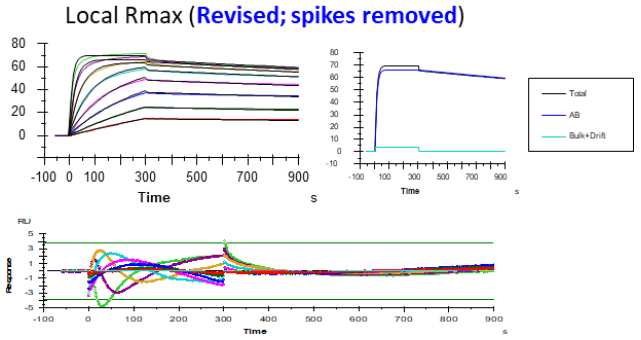
Curve	T(ka1)	T(kd1)	T(ka2)	T(kd2)	Rmax1 (RU	T(Rmax1)	Rmax2 (RU	T(Rmax2)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	2.40E+02	0.15	93	76						2.21E+09	2			
Cycle: 5 1000 nM					43	170	25	100	1.00E-06			50	3.7	120
Cycle: 6 500 nM					43	200	23	120	5.00E-07			50	2.5	81
Cycle: 7 250 nM					43	210	23	140	2.50E-07			50	2.1	70
Cycle: 8 125 nM					43	230	23	100	1.25E-07			50	1.1	40
Cycle: 9 62.5 nM					41	220	25	76	6.25E-08			50	1.2	45
Cycle: 10 31.2 nM					42	180	30	52	3.12E-08			50	1.0	45
Cycle: 11 15.6 nM					42	140	38	35	1.56E-08			50	0.40	17
Cycle: 12 7.8 nM					45	100	36	18	7.80E-09			50	0.10	4.8

Fc 2-1

PGT151 fab titration against BG505 SOSIP.664-2G12-purified

CM5-anti-his

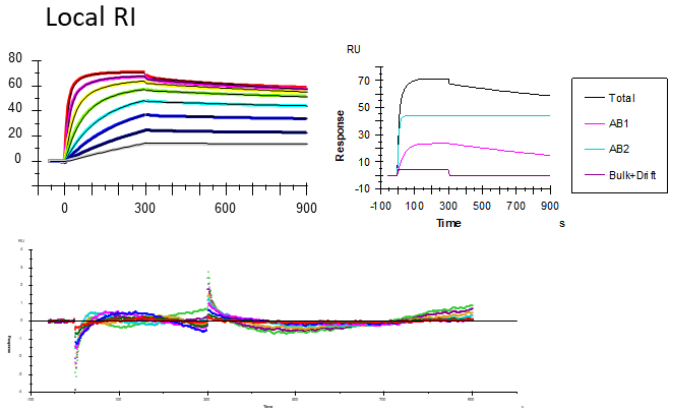
Langmuir fit



			Langmuir local Rmax									
	MA	ML	RL	(MA/ML)*RL	Rmax	Sm						
	50	356	249	35.0	66	1.9						
Curve	ka (1/Ms)	kd (1/s)	KD (M)	Rmax (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value	
	8.75E+04	1.75E-04	2.00E-09			1.95E+21				0.602	2	
Cycle: 5 1000 nM				66	1.00E-06		50	7.19E+21	3.863			
Cycle: 6 500 nM				65	5.00E-07		50	7.19E+21	1.837			
Cycle: 7 250 nM				62	2.50E-07		50	7.19E+21	1.831			
Cycle: 8 125 nM				60	1.25E-07		50	7.19E+21	2.702			
Cycle: 9 62.5 nM				61	6.25E-08		50	7.19E+21	2.662			
Cycle: 10 31.2 nM				68	3.12E-08		50	7.19E+21	1.737			
Cycle: 11 15.6 nM				76	1.56E-08		50	7.19E+21	0.7769			
Cycle: 12 7.8 nM				82	7.80E-09		50	7.19E+21	0.2908			

Curve	ka (1/Ms)	T(ka)	kd (1/s)	T(kd)	Rmax (RU	T(Rmax)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)
	8.75E+04	3.00E+02	1.75E-04	1.30E+02				1.95E+21	4.60E-05			
Cycle: 5 1000 nM					66	1.60E+03	1.00E-06			50	3.9	63
Cycle: 6 500 nM					65	1.50E+03	5.00E-07			50	1.8	30
Cycle: 7 250 nM					62	1.50E+03	2.50E-07			50	1.8	28
Cycle: 8 125 nM					60	1.20E+03	1.25E-07			50	2.7	42
Cycle: 9 62.5 nM					62	6.60E+02	6.25E-08			50	2.7	48
Cycle: 10 31.2 nM					68	4.30E+02	3.12E-08			50	1.7	35
Cycle: 11 15.6 nM					76	3.30E+02	1.56E-08			50	0.8	16
Cycle: 12 7.8 nM					82	2.70E+02	7.80E-09			50	0.3	6

Heterogeneous Ligand



Local Rmax and RI			Heterogeneous Ligand fit												
	MA	ML	RL	(MA/ML)*RL	Rmax 1	Sm 1	Rmax 2	Sm 2	Sm1+Sm2						
	50	356	249	35.0	24	0.69	44	1.3	1.9						
Curve	ka1 (1/Ms)	kd1 (1/s)	KD1 (M)	ka2 (1/Ms	kd2 (1/s)	KD2 (M)	Rmax1 (RU	Rmax2 (RU	Conc (M)	tc	Flow (ul/r	kt (RU/Ms	RI (RU)	Chi² (RU²)	U-value
	2.69E+04	7.81E-04	2.91E-08	1.34E+05	6.85E-08	5.11E-13				1.71E+10				0.101	N/A
Cycle: 5 1000 nM							24	44	1.00E-06		50	6.29E+10	4.0		
Cycle: 6 500 nM							23	44	5.00E-07		50	6.29E+10	2.8		
Cycle: 7 250 nM							23	44	2.50E-07		50	6.29E+10	2.3		
Cycle: 8 125 nM							24	44	1.25E-07		50	6.29E+10	1.6		
Cycle: 9 62.5 nM							28	42	6.25E-08		50	6.29E+10	1.6		
Cycle: 10 31.2 nM							33	42	3.12E-08		50	6.29E+10	1.4		
Cycle: 11 15.6 nM							43	43	1.56E-08		50	6.29E+10	0.77		
Cycle: 12 7.8 nM							48	45	7.80E-09		50	6.29E+10	0.40		

Curve	T(ka1)	T(kd1)	T(ka2)	T(kd2)	Rmax1 (RU	T(Rmax1)	Rmax2 (RU	T(Rmax2)	Conc (M)	tc	T(tc)	f (ul/min)	RI (RU)	T(RI)	T(kt)
	92	79	260	0.14						1.71E+10	1.4				
Cycle: 5 1000 nM					24	110	44	190	1.00E-06			50	4	130	
Cycle: 6 500 nM					23	130	44	220	5.00E-07			50	2.8	93	
Cycle: 7 250 nM					23	150	44	240	2.50E-07			50	2.3	80	
Cycle: 8 125 nM					24	110	44	250	1.25E-07			50	1.6	57	
Cycle: 9 62.5 nM					28	83	42	230	6.25E-08			50	1.6	60	
Cycle: 10 31.2 nM					33	57	42	200	3.12E-08			50	1.4	62	
Cycle: 11 15.6 nM					43	40	43	150	1.56E-08			50	0.8	35	
Cycle: 12 7.8 nM					48	23	45	110	7.80E-09			50	0.4	18	

Fc 4-3

Ligand: B41 SOSIP.664-his (2G12/ SEC purified)
B41 SOSIP.664-his (PGT145/ SEC purified)

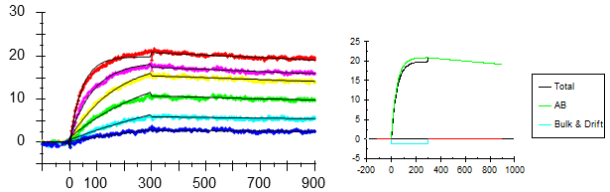
Analyte: PGT145 fab
PGT151 fab

Sensor chip: CM5-anti-his Ab

Biacore 3000

CM5-anti-His

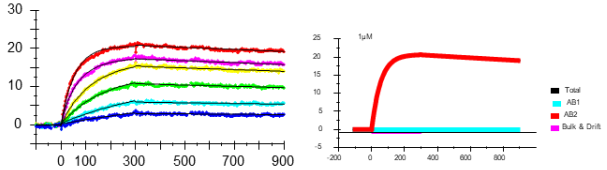
PGT145 fab titrated against B41 SOSIP.664-2G12-purified



Langmuir fit					
M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm
50	364	256	35.2	21	0.60

	ka (1/Ms)	kd (1/s)	Rmax (RU)	RI (RU)	Conc of ana	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	2.20E+04	1.50E-04				1.50E+08	6.50E-09			0.12
E3PGT145fab 1uM 2G12pFc=3-1 - 3			21	-1.1	1000n			21	0.023	
E3 PGT145fab 500n Fc=3-1 - 4			18	0.7	500n			18	1.10E-02	
E3 PGT145fab 250n Fc=3-1 - 5			19	0.64	250n			19	5.80E-03	
E3 PGT145fab 125n Fc=3-1 - 6			19	0.94	125n			18	2.90E-03	
E3 PGT145fab 62.5n Fc=3-1 - 7			18	0.48	62.5n			16	1.50E-03	
E3 PGT145fab 31.2n Fc=3-1 - 8			15	0.23	31.2n			13	8.50E-04	

	Conc	Rmax	T(Rmax)	ka	T(ka)	kd	T(kd)	RI	T(RI)	kt	T(kt)
				2.20E+04	1.60E+02	1.50E-04	56			1.90E+16	7.80E-04
E3PGT145fa	1000n	21	8.80E+02					-1.1	-30		
E3 PGT145f	500n	18	6.90E+02					0.7	21		
E3 PGT145f	250n	19	3.70E+02					0.64	23		
E3 PGT145f	125n	19	2.30E+02					0.94	40		
E3 PGT145f	62.5n	18	1.80E+02					0.48	21		
E3 PGT145f	31.2n	15	1.30E+02					0.23	10		



Heterogenous Liagand						
M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm	
50	364	256	35.2	0.019	5.4E-04	Sm1
50	364	256	35.2	21	0.60	Sm2

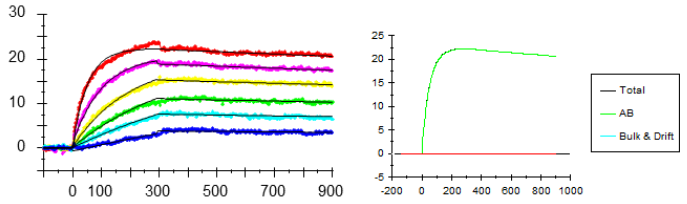
	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax1 (RU)	Rmax2 (RU)	RI (RU)	Conc of ana	KA1 (1/M)	KA2 (1/M)	Chi2
	4.30E+04	1.70E-04	1.80E+04	1.40E-04					2.50E+08	1.40E+08	0.079
E3PGT145fab 1uM 2G12pFc=3-1 - 3					0.019	21	-0.32	1000n			
E3 PGT145fab 500n Fc=3-1 - 4					9.3	9	-0.086	500n			
E3 PGT145fab 250n Fc=3-1 - 5					9.7	8.5	-0.18	250n			
E3 PGT145fab 125n Fc=3-1 - 6					14	0.014	0.23	125n			
E3 PGT145fab 62.5n Fc=3-1 - 7					8.5	4.9	0.34	62.5n			
E3 PGT145fab 31.2n Fc=3-1 - 8					6.1	5.8	0.2	31.2n			

	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	T(ka1)	T(kd1)	T(ka2)	T(kd2)	RI	T(RI)
						78	45	160	46		
E3PGT145fab 1uM 2C	1000n	0.019	15	21	850					-0.32	-10
E3 PGT145fab 500n F	500n	9.3	53	9	49					-0.086	-3.1
E3 PGT145fab 250n F	250n	9.7	39	8.5	28					-0.18	-6.3
E3 PGT145fab 125n	125n	14	43	0.014	0.03					0.23	8.3
E3 PGT145fab 62.5n	62.5n	8.5	30	4.9	9.6					0.34	21
E3 PGT145fab 31.2n	31.2n	6.1	26	5.8	12					0.2	20

Exp 1

CM5-anti-His

PGT145 fab titrated against B41 SOSIP.664-2G12-purified

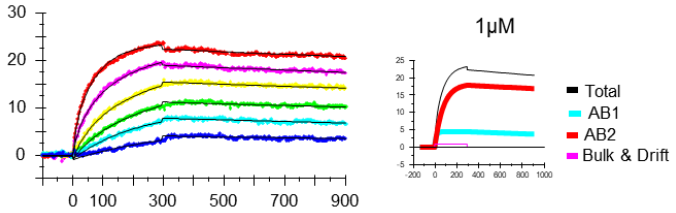


Langmuir fit

M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm
50	364	250	34.3	22	0.64

	ka (1/Ms)	kd (1/s)	Rmax (RU)	RI (RU)	Conc of ana	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	2.00E+04	1.20E-04				1.60E+08	6.40E-09			0.12
E2PGT145fab 1uM 2G12pFc=3-1 - 3			22	0.032	1000n			22	0.02	
E2PGT145fab500n 2G12pFc=3-1 - 4			20	0.79	500n			20	9.90E-03	
E2 PGT145fab 250n Fc=3-1 - 5			20	0.2	250n			20	5.00E-03	
E2 PGT145fab 125n Fc=3-1 - 6			22	0.17	125n			21	2.60E-03	
E2 PGT145fab 62.5n Fc=3-1 - 7			25	0.053	62.5n			23	1.40E-03	
E2 PGT145fab 31.2n Fc=3-1 - 8			24	-0.57	31.2n			20	7.40E-04	

	Conc	Rmax	T(Rmax)	ka	T(ka)	kd	T(kd)	RI	T(RI)	kt	T(kt)
				2.00E+04	1.60E+02	1.20E-04	52			5.10E+16	0.25
E2PGT145fa	1000n	22	9.20E+02					0.032	0.85		
E2PGT145fa	500n	20	6.60E+02					0.79	23		
E2 PGT145f	250n	20	3.30E+02					0.2	7.4		
E2 PGT145f	125n	22	2.20E+02					0.17	7		
E2 PGT145f	62.5n	25	1.80E+02					0.053	2.3		
E2 PGT145f	31.2n	24	1.50E+02					-0.57	-25		



Heterogenous Liagand

M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm	
50	364	250	34.3	4.5	0.13	Sm1
50	364	250	34.3	18	0.52	Sm2

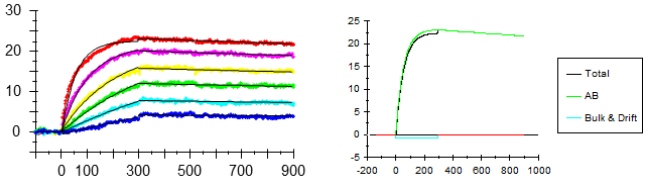
	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax1 (RU)	Rmax2 (RU)	RI (RU)	Conc of ana	KA1 (1/M)	KA2 (1/M)	Chi2
	7.90E+04	2.60E-04	1.30E+04	9.00E-05					3.10E+08	1.40E+08	0.061
E2PGT145fab 1uM 2G12pFc=3-1 - 3					4.5	18	0.86	1000n			
E2PGT145fab500n 2G12pFc=3-1 - 4					4.9	17	0.7	500n			
E2 PGT145fab 250n Fc=3-1 - 5					5.4	17	-0.65	250n			
E2 PGT145fab 125n Fc=3-1 - 6					5.7	16	-0.68	125n			
E2 PGT145fab 62.5n Fc=3-1 - 7					9	5.4	-0.73	62.5n			
E2 PGT145fab 31.2n Fc=3-1 - 8					8	0.03	-0.86	31.2n			

	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	T(ka1)	T(kd1)	T(ka2)	T(kd2)	RI	T(RI)
						40	24	150	23		
E2PGT145fab 1uM 2C	1000n	4.5	3.00E+02	18	6.80E+02					0.86	31
E2PGT145fab500n 2C	500n	4.9	4.60E+01	17	1.40E+02					0.7	2.10E+01
E2 PGT145fab 250n F	250n	5.4	3.50E+01	17	70					-0.65	-17
E2 PGT145fab 125n F	125n	5.7	2.30E+01	16	2.80E+01					-0.68	-17
E2 PGT145fab 62.5n	62.5n	9	22	5.4	4.5					-0.73	-80
E2 PGT145fab 31.2n	31.2n	8	11	0.03	9.50E-03					-0.86	-27

Exp 2a

CM5-anti-His

PGT145 fab titrated against B41 SOSIP.664-2G12-purified

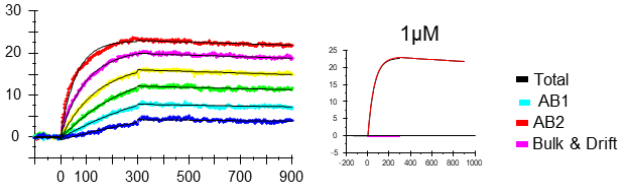


Langmuir fit

M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm
50	364	258	35.4	23	0.65

	ka (1/Ms)	kd (1/s)	Rmax (RU)	RI (RU)	Conc of anal	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	1.90E+04	1.00E-04				1.80E+08	5.60E-09			0.12
E2PGT145fab 1uM 2G12pFc=4-1 - 3			23	-0.77	1000n			23	0.019	
E2PGT145fab500n 2G12pFc=4-1 - 4			22	0.17	500n			21	9.40E-03	
E2 PGT145fab 250n Fc=4-1 - 5			21	0.29	250n			21	4.80E-03	
E2 PGT145fab 125n Fc=4-1 - 6			24	0.087	125n			23	2.40E-03	
E2 PGT145fab 62.5n Fc=4-1 - 7			27	-0.12	62.5n			24	1.30E-03	
E2 PGT145fab 31.2n Fc=4-1 - 8			26	-0.58	31.2n			22	6.90E-04	

	Conc	Rmax	T(Rmax)	ka	T(ka)	kd	T(kd)	RI	T(RI)	kt	T(kt)
				1.90E+04	1.70E+02	1.00E-04	46			4.40E+15	0.16
E2PGT145fa	1000n	23	9.70E+02					-0.77	-20		
E2PGT145fa	500n	22	6.60E+02					0.17	5.1		
E2 PGT145f	250n	21	3.40E+02					0.29	11		
E2 PGT145f	125n	24	2.30E+02					0.087	3.7		
E2 PGT145f	62.5n	27	1.90E+02					-0.12	-5.3		
E2 PGT145f	31.2n	26	1.50E+02					-0.58	-26		



Heterogenous Liagand

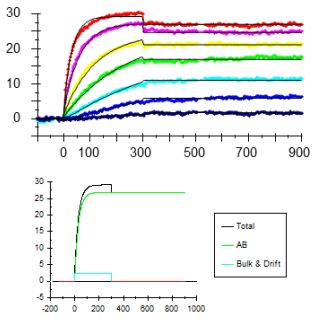
M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm	
50	364	258	35.4	3.20E-03	9.0E-05	Sm1
50	364	258	35.4	23	0.65	Sm2

	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax1 (RU)	Rmax2 (RU)	RI (RU)	Conc of ana	KA1 (1/M)	KA2 (1/M)	Chi2
	3.50E+04	1.40E-04	1.70E+04	8.60E-05					2.40E+08	1.90E+08	0.1
E2PGT145fab 1uM 2G12pFc=4-1 - 3					3.20E-03	23	-0.23	1000n			
E2PGT145fab500n 2G12pFc=4-1 - 4					5.1	16	-0.093	500n			
E2 PGT145fab 250n Fc=4-1 - 5					12	7.7	-0.65	250n			
E2 PGT145fab 125n Fc=4-1 - 6					12	8.4	-0.31	125n			
E2 PGT145fab 62.5n Fc=4-1 - 7					15	3.7	-0.27	62.5n			
E2 PGT145fab 31.2n Fc=4-1 - 8					16	0.017	-0.67	31.2n			

	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	T(ka1)	T(kd1)	T(ka2)	T(kd2)	RI	T(RI)
						130	62	220	48		
E2PGT145fab 1uM 2C	1000n	3.20E-03	38	23	1100					-0.23	-2.00E+01
E2PGT145fab500n 2C	500n	5.1	51	16	160					-0.093	-23
E2 PGT145fab 250n F	250n	12	120	7.7	66					-6.50E-01	-8.30E+01
E2 PGT145fab 125n F	125n	12	69	8.4	34					-0.31	-8.60E+01
E2 PGT145fab 62.5n	62.5n	15	77	3.7	12					-0.27	-1.00E+02
E2 PGT145fab 31.2n	31.2n	16	81	0.017	0.053					-0.67	-54

Exp 2b

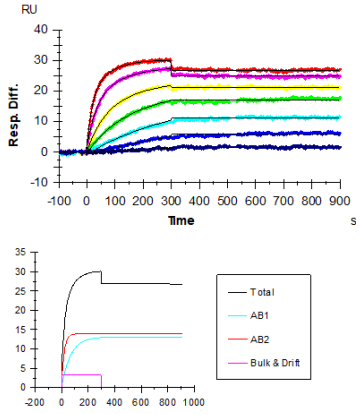
PGT145 fab titrated against B41 SOSIP.664-PGT145-purified



			Langmuir fit			
M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm	
50	364	237	32.6	27	0.83	

	ka (1/Ms)	kd (1/s)	Rmax (RU)	RI (RU)	Conc of anal	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	3.30E+04	1.00E-07				3.30E+11	3.10E-12			0.16
PGT145fab 1uM-145purFc=2-1 - 3			27	2.2	1000n			27	0.033	
PGT145fab 500n145pur Fc=2-1 - 4			25	2.4	500n			25	0.016	
PGT145fab250n145purFc=2-1 - 5			23	1.5	250n			23	8.20E-03	
PGT145fab125n145pur Fc=2-1 - 6			24	0.7	125n			24	4.10E-03	
PGT145fab62.5n145pur Fc=2-1 - 7			24	-0.44	62.5n			24	2.00E-03	
PGT145fab31.2n145pur Fc=2-1 - 8			22	-0.64	31.2n			22	1.00E-03	
PGT145fab15.6n145purFc=2-1 - 9			11	-0.33	15.6n			11	5.10E-04	

	Conc	Rmax	T(Rmax)	ka	T(ka)	kd	T(kd)	RI	T(RI)	kt	T(kt)
				3.30E+04	2.00E+02	1.00E-07	0.13			2.30E+09	2.4
PGT145fab 1	1000n	27	1.50E+03					2.2	69		
PGT145fab 5	500n	25	1.30E+03					2.4	68		
PGT145fab2	250n	23	7.10E+02					1.5	46		
PGT145fab1	125n	24	3.60E+02					0.7	25		
PGT145fab6	62.5n	24	2.50E+02					-0.44	-17		
PGT145fab3	31.2n	22	1.90E+02					-0.64	-25		
PGT145fab1	15.6n	11	88					-0.33	-13		

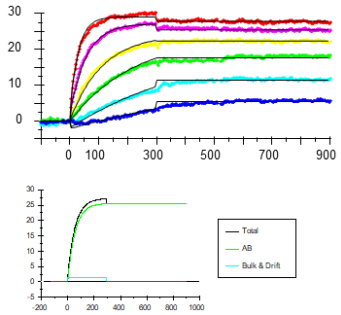


			Heterogenous Liagand				
M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm		
50	364	237	32.6	13	0.40	Sm1	
50	364	237	32.6	14	0.43	Sm2	

	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax1 (RU	Rmax2 (RU	RI (RU)	Conc of ana	KA1 (1/M)	KA2 (1/M)	Chi2
	1.47E+04	6.77E-07	5.21E+04	4.95E-07					2.17E+10	1.05E+11	0.0975
PGT145fab 1uM-145purFc=2-1 - 3					13	14	3.24	1000n			
PGT145fab 500n145pur Fc=2-1 - 4					10	16	2.57	500n			
PGT145fab250n145purFc=2-1 - 5					7	17	0.54	250n			
PGT145fab125n145pur Fc=2-1 - 6					1	19	-0.23	125n			
PGT145fab62.5n145pur Fc=2-1 - 7					0	18	-0.783	62.5n			
PGT145fab31.2n145pur Fc=2-1 - 8					11	11	-0.695	31.2n			
PGT145fab15.6n145purFc=2-1 - 9					6	6	-0.344	15.6n			

	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	ka1	T(ka1)	kd1	T(kd1)	ka2	T(ka2)	kd2	T(kd2)	RI	T(RI)
						1.47E+04	53.5	6.77E-07	25.5	5.21E+04	148	4.95E-07	18.6		
PGT145fab 1uM-14	1000n	13.1	6.64E+01	13.9	67.4									3.24	96.9
PGT145fab 500n14	500n	10.1	6.00E+01	15.8	94.1									2.57	74
PGT145fab250n145	250n	6.57	26.4	17.2	96									0.54	16.8
PGT145fab125n145	125n	0.975	2.81	19.4	104									-0.23	-10.8
PGT145fab62.5n14	62.5n	0.427	1.05	17.7	102									-0.783	-69.5
PGT145fab31.2n14	31.2n	11.4	28.8	11.4	71.8									-0.695	-46.9
PGT145fab15.6n14	15.6n	5.63	27.6	5.76	63.4									-0.344	-39.4

PGT145 fab titrated against B41 SOSIP.664-PGT145-purified

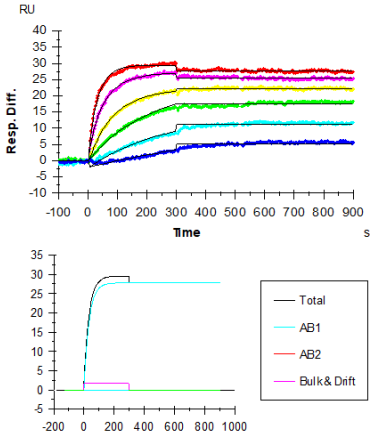


Langmuir fit

Exp 1b	M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm
	50	364	250	34.3	28	0.82

	ka (1/Ms)	kd (1/s)	Rmax (RU)	RI (RU)	Conc of ana	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	3.60E+04	2.60E-09				1.40E+13	7.30E-14			0.23
PGT145fab 1uM-145pur Fc=3-1 - 3			28	1.2	1000n			28	0.036	
PGT145fab 500n145pur Fc=3-1 - 4			26	1.6	500n			26	0.018	
PGT145fab250n145pur Fc=3-1 - 5			24	0.21	250n			24	8.90E-03	
PGT145fab125n145pur Fc=3-1 - 6			24	0.01	125n			24	4.50E-03	
PGT145fab62.5n145pur Fc=3-1 - 7			23	-1.8	62.5n			23	2.20E-03	
PGT145fab31.2n145pur Fc=3-1 - 8			19	-2	31.2n			19	1.10E-03	

	Conc	Rmax	T(Rmax)	ka	T(ka)	kd	T(kd)	RI	T(RI)	kt	T(kt)
				3.60E+04	1.80E+02	2.60E-09	3.20E-03			2.60E+09	0.86
PGT145fab 1uM-145pu	1000n	28	1.30E+03					1.2	32		
PGT145fab 500n145pu	500n	26	1.20E+03					1.6	37		
PGT145fab250n145pu	250n	24	7.00E+02					0.21	5.6		
PGT145fab125n145pu	125n	24	3.40E+02					0.01	1.5		
PGT145fab62.5n145pu	62.5n	23	2.40E+02					-1.8	-57		
PGT145fab31.2n145pu	31.2n	19	1.70E+02					-2	-64		



Heterogenous Liagand

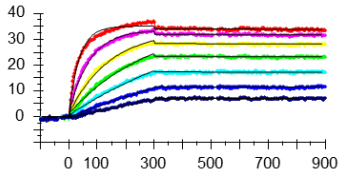
MA	ML	RL	(MA/ML)*RL	Rmax	Sm	
50	364	250	34.3	28	0.82	Sm1
50	364	250	34.3	0.0197	5.7E-04	Sm2

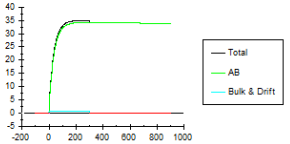
	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax1 (RU	Rmax2 (RU	RI (RU)	Conc of ana	KA1 (1/M)	KA2 (1/M)	Chi2
	3.00E+04	1.47E-06	5.95E+04	4.40E-07					2.04E+10	1.35E+11	0.185
PGT145fab 1uM-145pur Fc=3-1 - 3					28	0.0197	1.7	1000n			
PGT145fab 500n145pur Fc=3-1 - 4					18	8.32	1.47	500n			
PGT145fab250n145pur Fc=3-1 - 5					9	14.4	-0.824	250n			
PGT145fab125n145pur Fc=3-1 - 6					18	5.97	-0.0487	125n			
PGT145fab62.5n145pur Fc=3-1 - 7					0.0328	17	-2.2	62.5n			
PGT145fab31.2n145pur Fc=3-1 - 8					8.77	7.66	-2.02	31.2n			

	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	ka1	T(ka1)	kd1	T(kd1)	ka2	T(ka2)	kd2	T(kd2)	RI	T(RI)
						3.00E+04	2.00E+02	1.47E-06	44.5	5.95E+04	174	4.40E-07	30.6		
PGT145fab 1uM-14	1000n	27.8	1.72E+03	0.0197	72									1.7	105
PGT145fab 500n14	500n	17.5	1.60E+02	8.32	76.8									1.47	76.9
PGT145fab250n145	250n	9.1	144	14.4	240									-0.824	-196
PGT145fab125n145	125n	18.3	165	5.97	66.5									-0.0487	-122
PGT145fab62.5n14	62.5n	0.0328	0.237	17	173									-2.2	-119
PGT145fab31.2n14	31.2n	8.77	74.3	7.66	99.8									-2.02	-105

PGT145 fab titrated against B41 SOSIP.664-PGT145-purified

CM5-anti-His



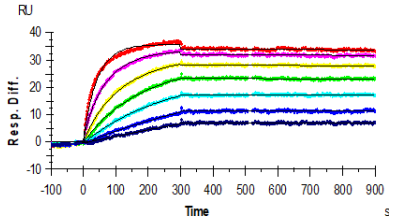


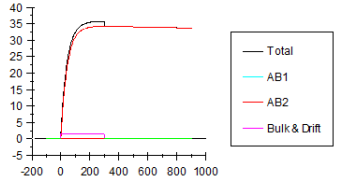
Langmuir fit

Exp 2	M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm
	50	364	256	35.2	34	0.97

	ka (1/Ms)	kd (1/s)	Rmax (RU)	RI (RU)	Conc of ana	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	2.80E+04	1.50E-05				1.80E+09	5.50E-10			0.17
E2 PGT145fab 1uM 145pFc=2-1 - 3			34	0.83	1000n			34	0.028	
E2 PGT145fab 500n145pFc=2-1 - 4			33	1.3	500n			33	0.014	
E2 PGT145fab 250n145pFc=2-1 - 5			32	1.3	250n			32	6.90E-03	
E2 PGT145fab 125n Fc=2-1 - 6			36	1.2	125n			36	3.50E-03	
E2 PGT145fab 62.5n Fc=2-1 - 7			43	0.57	62.5n			43	1.70E-03	
E2 PGT145fab 31.2n Fc=2-1 - 8			50	-0.2	31.2n			49	8.80E-04	
E2 PGT145fab 15.6n Fc=2-1 - 9			59	-0.34	15.6n			57	4.50E-04	

	Conc	Rmax	T(Rmax)	ka	T(ka)	kd	T(kd)	RI	T(RI)	kt	T(kt)
				2.80E+04	2.40E+02	1.50E-05	9.5			9.50E+09	1.3
E2 PGT145fab 1uM 145	1000n	34	1.30E+03					0.83	21		
E2 PGT145fab 500n14	500n	33	1.20E+03					1.3	31		
E2 PGT145fab 250n14	250n	32	6.80E+02					1.3	38		
E2 PGT145fab 125n Fc	125n	36	4.00E+02					1.2	39		
E2 PGT145fab 62.5n F	62.5n	43	3.00E+02					0.57	20		
E2 PGT145fab 31.2n F	31.2n	50	2.50E+02					-0.2	-7.6		
E2 PGT145fab 15.6n F	15.6n	59	2.20E+02					-0.34	-13		





Heterogenous Liagand

MA	ML	RL	(MA/ML)*RL	Rmax	Sm	
50	364	256	35.2	2.72E-03	0.00	Sm1
50	364	256	35.2	34	9.8E-01	Sm2

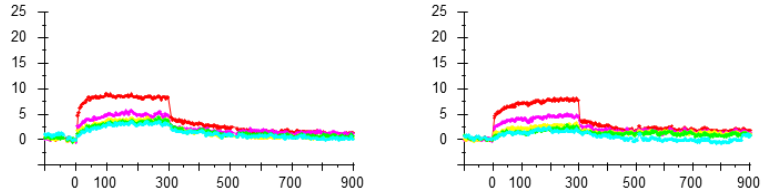
	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax 1 (RU	Rmax2 (RU	RI (RU)	Conc of ana	KA1 (1/M)	KA2 (1/M)	Chi2
	6.13E+04	1.23E-05	2.34E+04	2.48E-05					5.00E+09	9.41E+08	0.111
E2 PGT145fab 1uM 145pFc=2-1 - 3					2.72E-03	34	1.48	1000n			
E2 PGT145fab 500n145pFc=2-1 - 4					7.89	25	1.03	500n			
E2 PGT145fab 250n145pFc=2-1 - 5					9.94	22	0.388	250n			
E2 PGT145fab 125n Fc=2-1 - 6					15.4	17	-0.0357	125n			
E2 PGT145fab 62.5n Fc=2-1 - 7					25.4	3.81E-03	-0.328	62.5n			
E2 PGT145fab 31.2n Fc=2-1 - 8					21	11.4	-0.402	31.2n			
E2 PGT145fab 15.6n Fc=2-1 - 9					20.4	19.7	-0.397	15.6n			

	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	ka1	T(ka1)	kd1	T(kd1)	ka2	T(ka2)	kd2	T(kd2)	RI	T(RI)
						6.13E+04	84	1.23E-05	11	2.34E+04	244	2.48E-05	26		
E2 PGT145fab 1uM	1000n	2.72E-03	17	34.3	1.93E+03									1.48	52.7
E2 PGT145fab 500r	500n	7.89	40	25	125									1.03	32.1
E2 PGT145fab 250r	250n	9.94	41	22.4	78.6									0.388	10.7
E2 PGT145fab 125r	125n	15.4	39	16.6	29.2									-0.0357	-0.99
E2 PGT145fab 62.5	62.5n	25.4	46	3.81E-03	4.10E-03									-0.328	-14.3
E2 PGT145fab 31.2	31.2n	21	35	11.4	9.05									-0.402	-37.2
E2 PGT145fab 15.6	15.6n	20.4	30	19.7	12.6									-0.397	-25.9

Exp 2

PGT151 fab titrated against B41 SOSIP.664-PGT145-purified

CM5-anti-His



Exp 1& 2

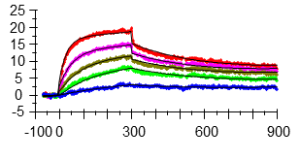
PGT151 fab titrated against B41 SOSIP.664-PGT145-purified

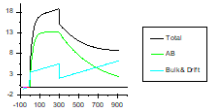
CM5-anti-His

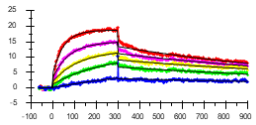
Edited version

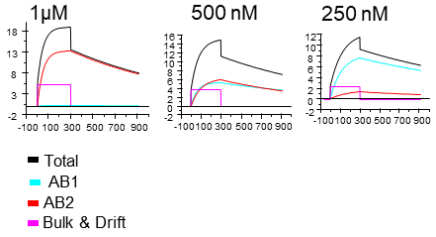
62.5n conc removed

In dissociation phase (after 855s) spikes were in sensorgram of 62.5n conc









2G12-purified

Edited — Langmuir fit with baseline drift

Exp 1	MA	ML	RL	(MA/ML)*RL	Rmax	Sm
	50	364	240	33.0	14	0.42

	ka (1/Ms)	kd (1/s)	Rmax (RU	RI (RU)	Drift (RU/s	Conc of an	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	3.21E+04	2.72E-03					1.18E+07	8.46E-08			0.121
PGT151fab 1uM 2G12p Fc=4-1 - 13			14	3.5	6.94E-03	1000n			13.2	0.0349	
PGT151fab 500n 2G12Fc=4-1 - 14			12	2.5	6.52E-03	500n			10.5	0.0188	
PGT151fab 250n 2G12Fc=4-1 - 15			12	1	5.58E-03	250n			9.25	0.0108	
PGT151fab 125n 2G12Fc=4-1 - 16			13	0	3.85E-03	125n			7.96	6.74E-03	
PGT151fab 31.2n Fc=4-1 - 18			13	0	2.15E-03	31.2n			3.6	3.72E-03	

	Conc	Rmax	T(Rmax)	T(ka)	T(kd)	RI	Drift	T(Drift)	kt	T(kt)
				113	109				1.01E+16	7.56E-04
PGT151fab 1uM 2G12	1000n	14	473			3.5	6.94E-03	1.02E+02		
PGT151fab 500n 2G12	500n	12	291			2.5	6.52E-03	1.13E+02		
PGT151fab 250n 2G12	250n	12	188			1	5.58E-03	1.06E+02		
PGT151fab 125n 2G12	125n	13	134			0	3.85E-03	8.40E+01		
PGT151fab 31.2n Fc=	31.2n	13	68			0	2.15E-03	6.45E+01		

Edited — Heterogenous Liagand

	MA	ML	RL	(MA/ML)*RL	Rmax	Sm		KD	
	50	364	240	33.0	0.27	8.2E-03	Sm1	1.83E-08	KD1 [M]
	50	364	240	33.0	14	0.42	Sm2	4.61E-08	KD2[M]

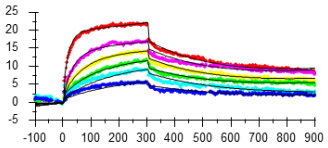
	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax1 (RU	Rmax2 (RU	RI (RU)	Conc of an	KA1 (1/M)	KA2 (1/M)	Chi2
	3.3E+04	6.0E-04	1.9E+04	8.8E-04					5.5E+07	2.2E+07	8.7E-02
PGT151fab 1uM 2G12p Fc=4-1 - 13					0.27	14	5.3	1000n			
PGT151fab 500n 2G12Fc=4-1 - 14					5.6	6.8	3.6	500n			
PGT151fab 250n 2G12Fc=4-1 - 15					9.0	2.2	2.2	250n			
PGT151fab 125n 2G12Fc=4-1 - 16					6.9	5.1	1.3	125n			
PGT151fab 31.2n Fc=4-1 - 18					12	0.05	0.2	31.2n			

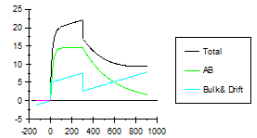
	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	T(ka1)	T(kd1)	T(ka2)	T(kd2)	RI	T(RI)
						98	86	103	141		
PGT151fab	1000n	0.3	46	13.9	440					5.3	147
PGT151fab	500n	5.6	91	6.8	104					3.6	138
PGT151fab	250n	9.0	107	2.2	21					2.2	89
PGT151fab	125n	6.9	74	5.1	38					1.3	74
PGT151fab	31.2n	12	87	0.05	0.25					0.19	55

Exp 1

PGT151 fab titrated against B41 SOSIP.664-PGT145-purified

CM5-anti-His



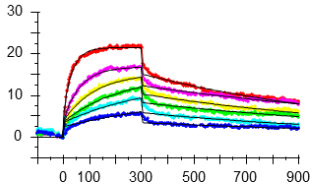


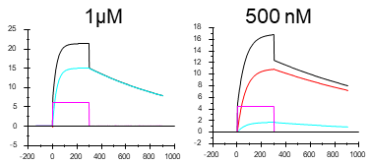
Langmuir fit with baseline drift

Exp 2a	MA	ML	RL	(MA/ML)*RL	Rmax	Sm
	50	364	244	33.5	16	0.48

	ka (1/Ms)	kd (1/s)	Rmax (RU)	RI (RU)	Drift (RU/s)	Conc of ana	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	4.51E+04	3.54E-03					1.27E+07	7.85E-08			0.199
E2PGT151fab 1uM2G12pFc=3-1 - 12			16	5	8.73E-03	1000n			15	0.0486	
E2PGT151fab500n2G12 Fc=3-1 - 13			14	2	8.45E-03	500n			12	0.0261	
E2 PGT151fab 250n Fc=3-1 - 14			14	2	6.14E-03	250n			11	0.0148	
E2 PGT151fab 125n Fc=3-1 - 15			14	2	5.14E-03	125n			9	9.18E-03	
E2 PGT151fab 62.5n Fc=3-1 - 16			20	1	2.31E-03	62.5n			9	6.36E-03	
E2 PGT151fab 31.2n Fc=3-1 - 18			20	1	1.89E-03	31.2n			6	4.95E-03	

	Conc	Rmax	T(Rmax)	T(ka)	T(kd)	RI	Drift	T(Drift)	kt	T(kt)
				94.4	137				3.30E+16	1.10E-03
E2PGT151fab 1uM2G	1000n	15.6	439			5	8.73E-03	145		
E2PGT151fab500n2G	500n	14.3	288			2	8.45E-03	155		
E2 PGT151fab 250n F	250n	13.8	184			2	6.14E-03	121		
E2 PGT151fab 125n F	125n	14.2	126			2	5.14E-03	111		
E2 PGT151fab 62.5n F	62.5n	20.1	102			1	2.31E-03	51		
E2 PGT151fab 31.2n F	31.2n	19.7	77.6			1	1.89E-03	48		





Total
AB1
AB2
Bulk & Drift

Heterogenous Liagand

	M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm		KD	
	50	364	244	33.5	16	0.48	Sm1	3.8E-08	KD1 [M]
	50	364	244	33.5	4.60E-03	1.37E-04	Sm2	2.3E-08	KD2[M]

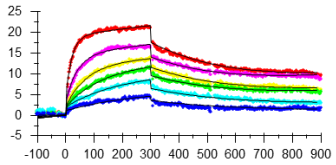
	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax1 (RU	Rmax2 (RU	RI (RU)	Conc of ana	KA1 (1/M)	KA2 (1/M)	Chi2
	2.90E+04	1.10E-03	3.00E+04	6.80E-04					2.70E+07	4.30E+07	0.11
E2PGT151fab 1uM2G12pFc=3-1 - 12					16	4.60E-03	6.3	1000n			
E2PGT151fab500n2G12 Fc=3-1 - 13					1.8	11	4.4	500n			
E2 PGT151fab 250n Fc=3-1 - 14					9.6	3.4	4.1	250n			
E2 PGT151fab 125n Fc=3-1 - 15					7.1	6.7	3.7	125n			
E2 PGT151fab 62.5n Fc=3-1 - 16					16	8.0E-04	3.6	62.5n			
E2 PGT151fab 31.2n Fc=3-1 - 18					7.5	9.1	2.6	31.2n			

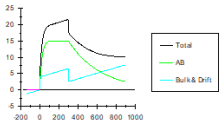
	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	T(ka1)	T(kd1)	T(ka2)	T(kd2)	RI	T(RI)
						1.20E+02	1.80E+02	8.70E+01	9.10E+01		
E2PGT151	1000n	16	490	0.0046	47					6.3	170
E2PGT151	500n	1.8	33	11	190					4.4	120
E2 PGT151	250n	9.6	98	3.4	40					4.1	150
E2 PGT151	125n	7.1	62	6.7	67					3.7	160
E2 PGT151	62.5n	16	120	8.0E-04	6.9E-03					3.6	160
E2 PGT151	31.2n	7.5	50	9.1	68					2.6	130

Exp 2a

PGT151 fab titrated against B41 SOSIP.664-PGT145-purified

CM5-anti-His



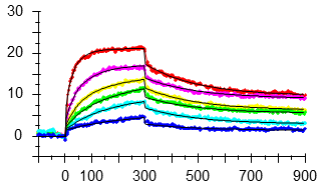


Langmuir fit with baseline drift

Exp 2b	MA	ML	RL	(MA/ML)*RL	Rmax	Sm
	50	364	258	35.4	16	0.45

	ka (1/Ms)	kd (1/s)	Rmax (RU)	RI (RU)	Drift (RU/s)	Conc of ana	KA (1/M)	KD (M)	Req (RU)	kobs (1/s)	Chi2
	4.39E+04	2.97E-03					1.48E+07	6.76E-08			0.0813
E2PGT151fab 1uM2G12pFc=4-1 - 12			16	4	8.6E-03	1000n			15	0.0469	
E2PGT151fab500n2G12pFc=4-1 - 13			13	3	8.7E-03	500n			12	0.0249	
E2 PGT151fab 250n Fc=4-1 - 14			13	2	5.5E-03	250n			10	0.0139	
E2 PGT151fab 125n Fc=4-1 - 15			14	2	5.2E-03	125n			8.8	8.45E-03	
E2 PGT151fab 62.5n Fc=4-1 - 16			15	2	2.5E-03	62.5n			7.1	5.71E-03	
E2 PGT151fab 31.2n Fc=4-1 - 18			14	1	9.8E-04	31.2n			4.4	4.34E-03	

	Conc	Rmax	T(Rmax)	T(ka)	T(kd)	RI	Drift	T(Drift)	kt	T(kt)
				149	172				3.70E+22	3.90E-05
E2PGT151fab 1uM2G	1000n	16	724			4	8.6E-03	173		
E2PGT151fab500n2G	500n	13	451			3	8.7E-03	213		
E2 PGT151fab 250n F	250n	13	292			2	5.5E-03	144		
E2 PGT151fab 125n F	125n	14	200			2	5.2E-03	150		
E2 PGT151fab 62.5n F	62.5n	15	150			2	2.5E-03	81		
E2 PGT151fab 31.2n F	31.2n	14	104			1	9.8E-04	37		



Heterogenous Liagand

M_A	M_L	R_L	$(M_A/M_L)*R_L$	Rmax	Sm		KD	
50	364	258	35.4	8.3	0.23	Sm1	6.7E-08	KD1 [M]
50	364	258	35.4	9.8	0.28	Sm2	6.1E-11	KD2[M]

	ka1 (1/Ms)	kd1 (1/s)	ka2 (1/Ms)	kd2 (1/s)	Rmax1 (RU	Rmax2 (RU	RI (RU)	Conc of ana	KA1 (1/M)	KA2 (1/M)	Chi2
	7.80E+04	5.20E-03	2.30E+04	1.40E-06					1.50E+07	1.60E+10	0.059
E2PGT151fab 1uM2G12pFc=4-1 - 12					8.3	9.8	3.5	1000n			
E2PGT151fab500n2G12pFc=4-1 - 13					5.7	9.4	2.8	500n			
E2 PGT151fab 250n Fc=4-1 - 14					6.9	7.7	1.9	250n			
E2 PGT151fab 125n Fc=4-1 - 15					6.1	9.9	2	125n			
E2 PGT151fab 62.5n Fc=4-1 - 16					8.6	8.7	1.5	62.5n			
E2 PGT151fab 31.2n Fc=4-1 - 18					5.6	7.7	1.5	31.2n			

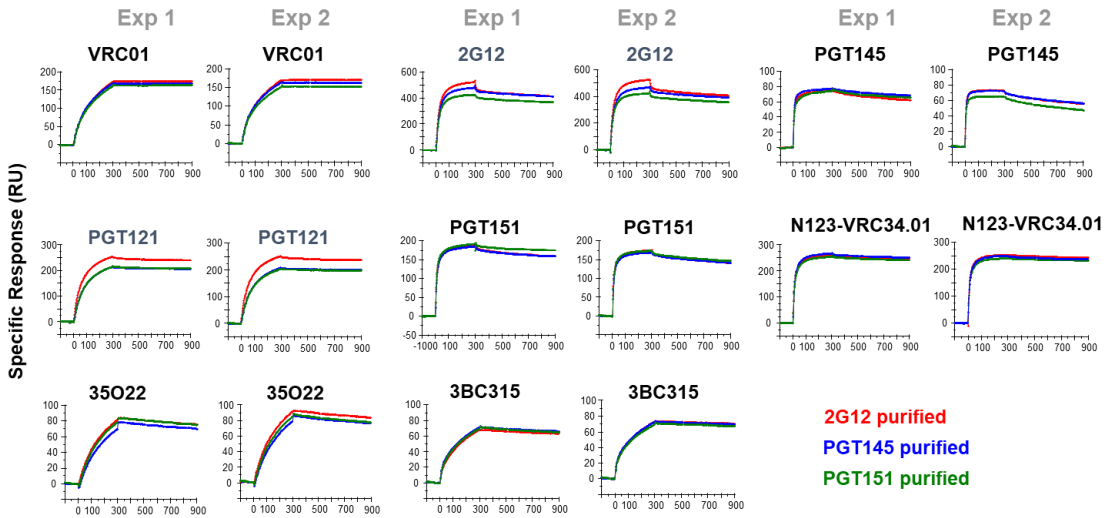
	Conc	RMax1	T(RMax1)	RMax2	T(RMax2)	T(ka1)	T(kd1)	T(ka2)	T(kd2)	RI	T(RI)
						5.00E+01	61	8.60E+01	0.14		
E2PGT151	1000n	8.3	1.00E+02	9.8	1.20E+02					3.5	69
E2PGT151	500n	5.7	1.10E+02	9.4	1.50E+02					2.8	66
E2 PGT151	250n	6.9	9.30E+01	7.7	1.20E+02					1.9	45
E2 PGT151	125n	6.1	6.80E+01	9.9	1.10E+02					2	57
E2 PGT151	62.5n	8.6	6.60E+01	8.7	83					1.5	45
E2 PGT151	31.2n	5.6	34	7.7	66					1.5	55

Exp 2b

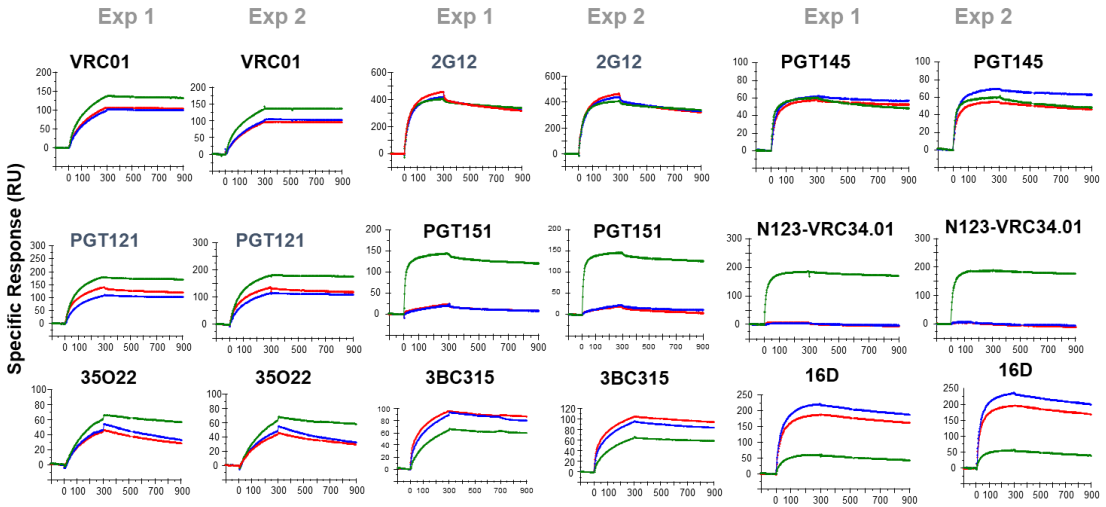
CM5-aHis

mAb binding to SOSIP.664 Env proteins

BG505 SOSIP.664



B41 SOSIP.664



CM5-aHis

mAbs binding to B41 SOSIP.664