

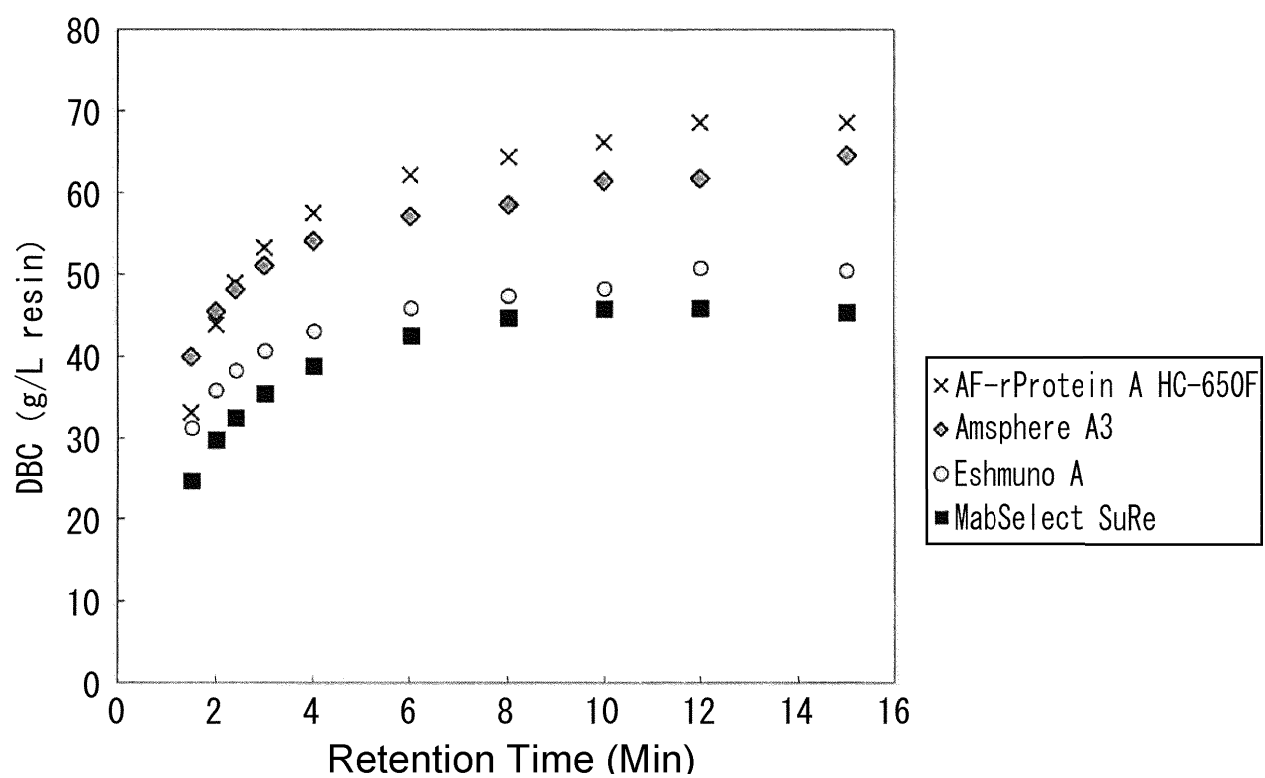
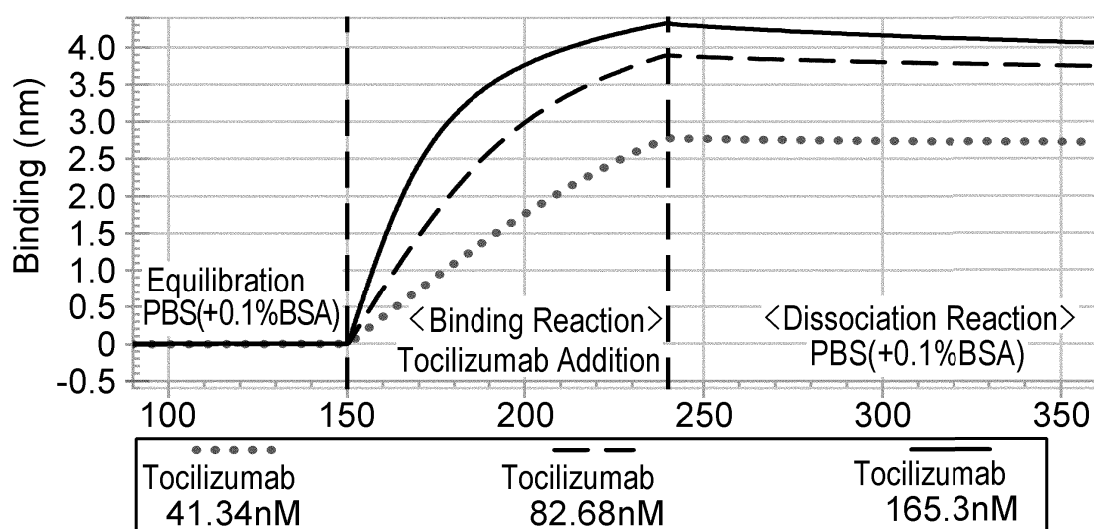


FIG. 1

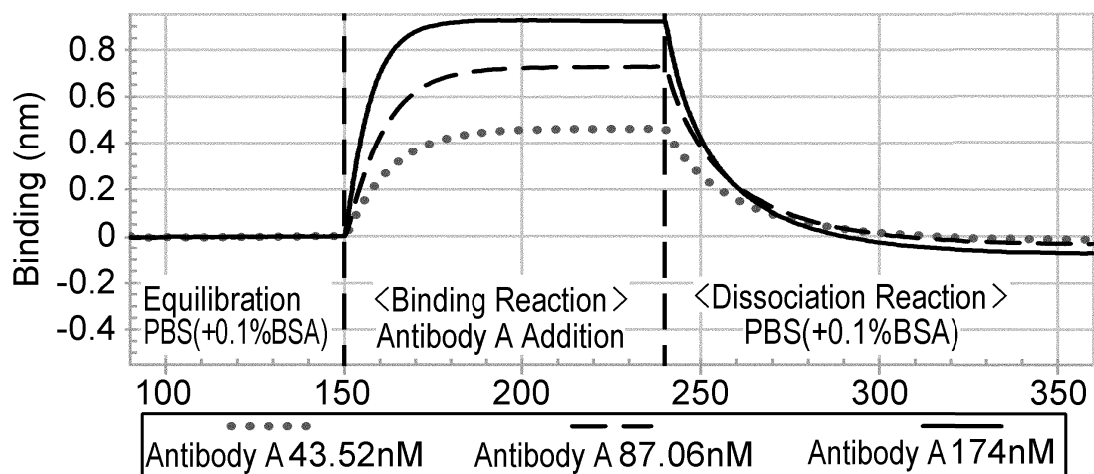
(A) AF-rProtein A HC-650F Ligand-immobilized Chip
+ Tocilizumab-containing Solution



$$K_D = 1.55 \times 10^{-9} M$$

Sample ID	Conc. (nM)	KD (M)	ka (1/Ms)	ka Error	kd (1/s)	kd Error	Rmax	Rmax Error	R equilibrium
Tocilizumab	41.34	1.55E-09	2.33E+05	9.93E+02	3.60E-04	1.09E-05	4.874	0.03668	4.698
Tocilizumab	82.68	1.55E-09	2.33E+05	9.93E+02	3.60E-04	1.09E-05	4.8	0.01928	4.711
Tocilizumab	165.3	1.55E-09	2.33E+05	9.93E+02	3.60E-04	1.09E-05	4.448	0.007023	4.406

(B) AF-rProtein A HC-650F Ligand-immobilized Chip
+ Antibody A-containing Solution

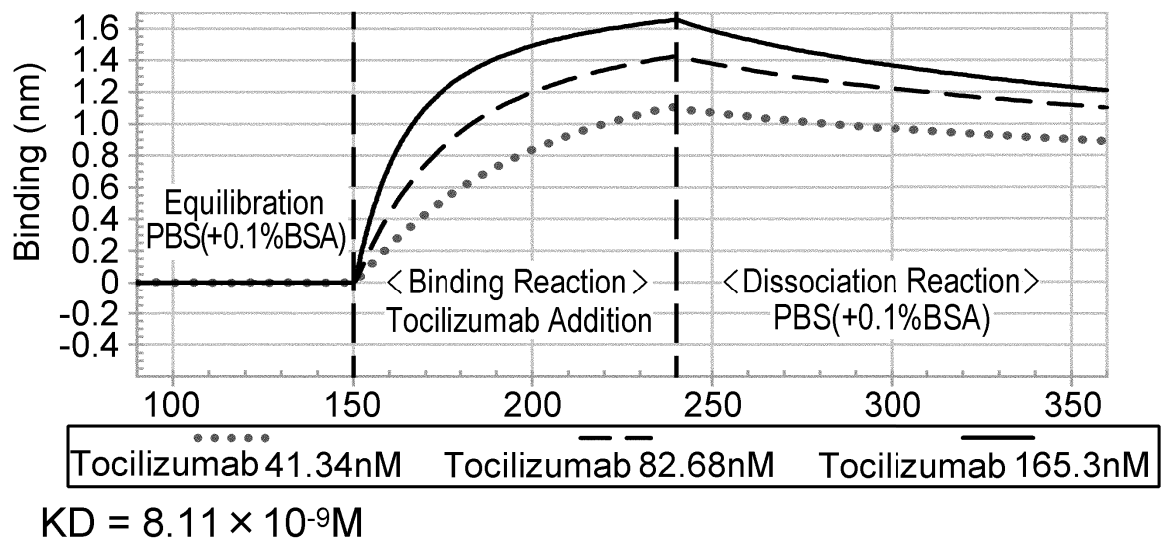


$$K_D = 184 \times 10^{-9} M$$

Sample ID	Conc. (nM)	KD (M)	ka (1/Ms)	ka Error	kd (1/s)	kd Error	Rmax	Rmax Error	R equilibrium
Antibody A	43.52	1.84E-07	3.70E+05	1.34E+04	6.81E-02	6.28E-04	2.432	0.08423	0.4654
Antibody A	87.06	1.84E-07	3.70E+05	1.34E+04	6.81E-02	6.28E-04	2.262	0.06648	0.7268
Antibody A	174	1.84E-07	3.70E+05	1.34E+04	6.81E-02	6.28E-04	1.899	0.04305	0.9233

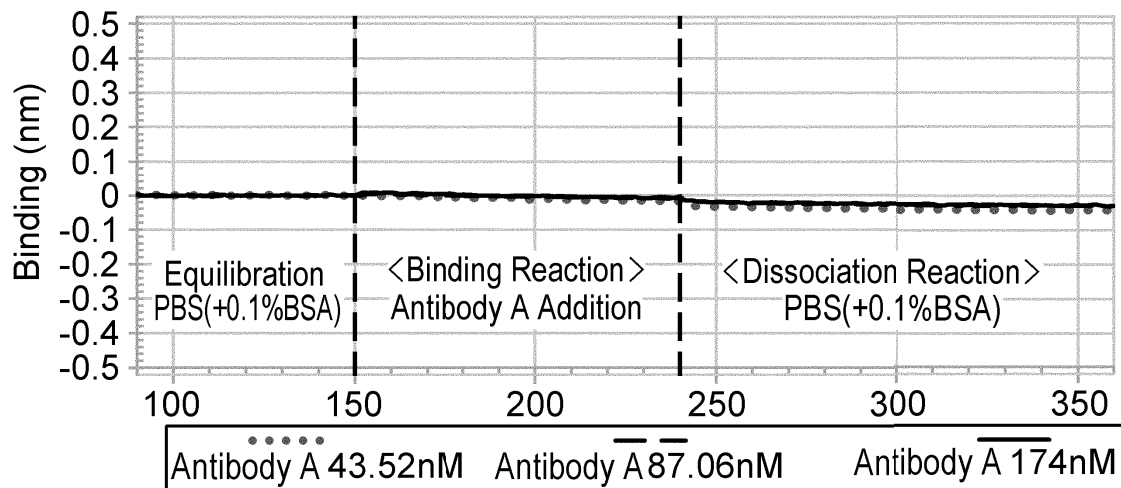
FIG. 2-1

(C) MabSelect SuRe 1.9 Ligand-immobilized Chip
+ Tocilizumab-containing Solution



Sample ID	Conc. (nM)	KD (M)	ka (1/Ms)	ka Error	kd (1/s)	kd Error	Rmax	Rmax Error	R equilibrium
Tocilizumab	41.34	8.11E-09	3.46E+05	1.44E+03	2.81E-03	1.67E-05	2.084	0.01365	1.743
Tocilizumab	82.68	8.11E-09	3.46E+05	1.44E+03	2.81E-03	1.67E-05	1.799	0.005814	1.639
Tocilizumab	165.3	8.11E-09	3.46E+05	1.44E+03	2.81E-03	1.67E-05	1.722	0.00256	1.642

(D) MabSelect SuRe 1.9 Ligand-immobilized Chip
+ Antibody A-containing Solution



Sample ID	Conc. (nM)	KD (M)	ka (1/Ms)	ka Error	kd (1/s)	kd Error	Rmax	Rmax Error	R equilibrium
Antibody A	43.52	-	-	-	-	-	-	-	-
Antibody A	87.06	-	-	-	-	-	-	-	-
Antibody A	174	-	-	-	-	-	-	-	-

FIG. 2-2