

Table S2 Kinetic parameters of surface plasmon resonance analysis in Figure 6.

Ligand	Analyte	k_a (1/Ms)	SEM (k_a)	% SEM (k_a)/ k_a	k_d (1/s)	SEM (k_d)	% SEM (k_d)/ k_d	KD (μ M)	χ^2
CD28	<i>wt</i>	603	2.69	0.43	9.87E-04	2.37E-05	2.40	1.64	1.34
CD28	<i>tk2</i>	757,000	18,400	2.43	4.74E-03	8.47E-05	1.78	6.3E-03	1.32
p17A	<i>tk2</i>	1,300,000	16,500	1.27	6.54E-04	3.41E-05	5.21	5.0E-04	0.49
p27A	<i>tk2</i>	1,200,000	13,900	1.16	5.38E-04	8.2E-05	15.24	4.5E-04	1.91

Purified recombinant superantigens were used. k_a , association rate; k_d , dissociation rate; KD, dissociation constant; Ms, millisecond; SEM, $n=3$.