Supplementary Information

Figure S1: Comparison of the experimental data and fits for binding of soluble B2MG to a monoclonal IgG antibody immobilized on different sensor surfaces: (A) CM3with 1350 RU anti-B2MG-biotin; (B) CM3 with 3200 RU anti-B2MG-biotin; (C) CM3 with 4100 RU anti-B2MG-biotin; (D) CM5 with 3000 RU anti-B2MG-biotin; (E) CM5 with 6000 RU anti-B2MG-biotin; (F) C1-SA with 1500 RU anti-B2MG-biotin; (G) CM3-SA with 800 RU anti-B2MG-biotin; (H) CM3-SA with 2600 RU anti-B2MG-biotin; (I) CM5-SA with 1000 RU anti-B2MG-biotin; (J) CM5-SA with 2000 RU anti-B2MG-biotin.
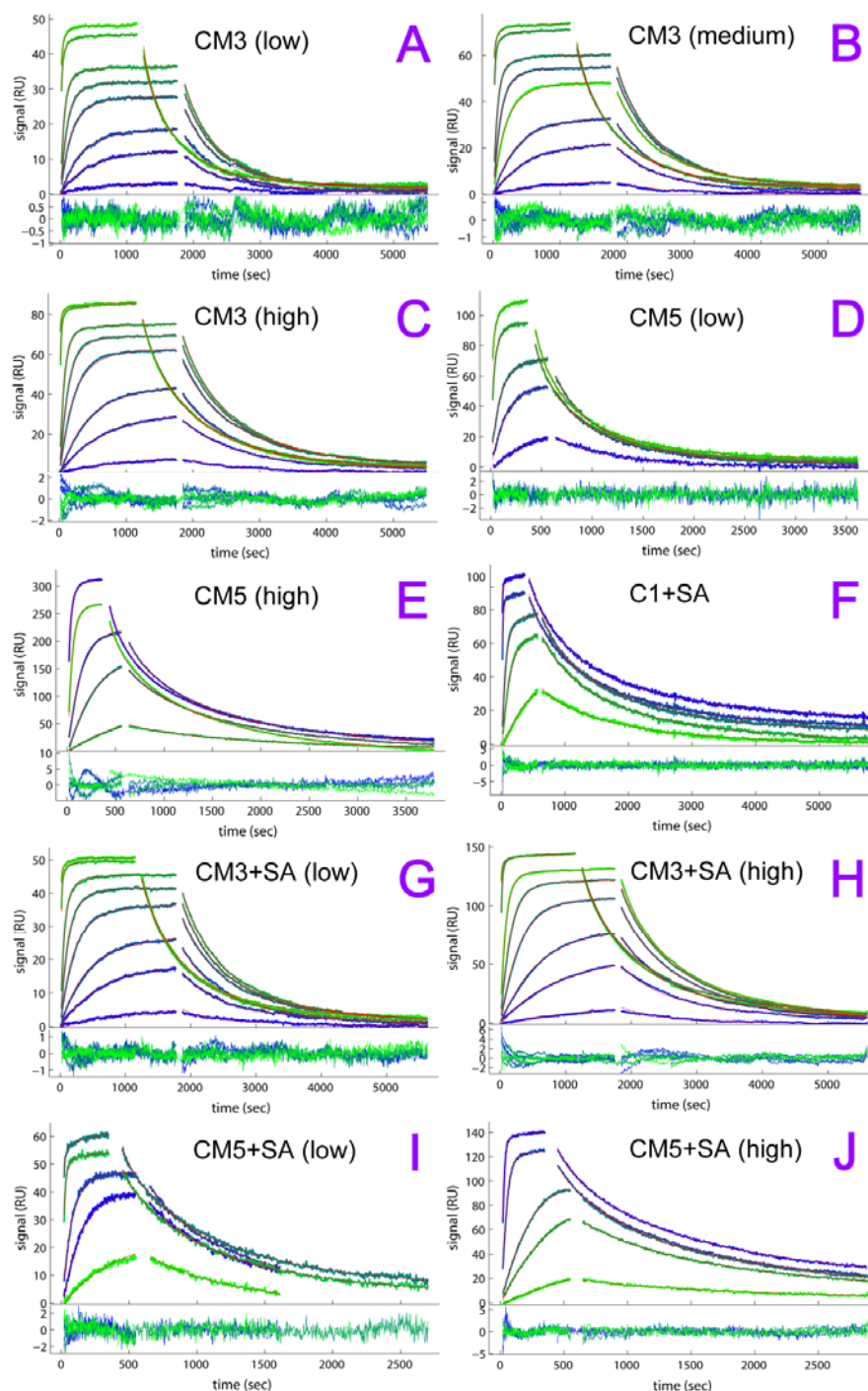
Figure S2: Affinity and rate constant distribution $P(k_{off}, K_D)$ from the global fits of the families of traces shown in Figure S1.