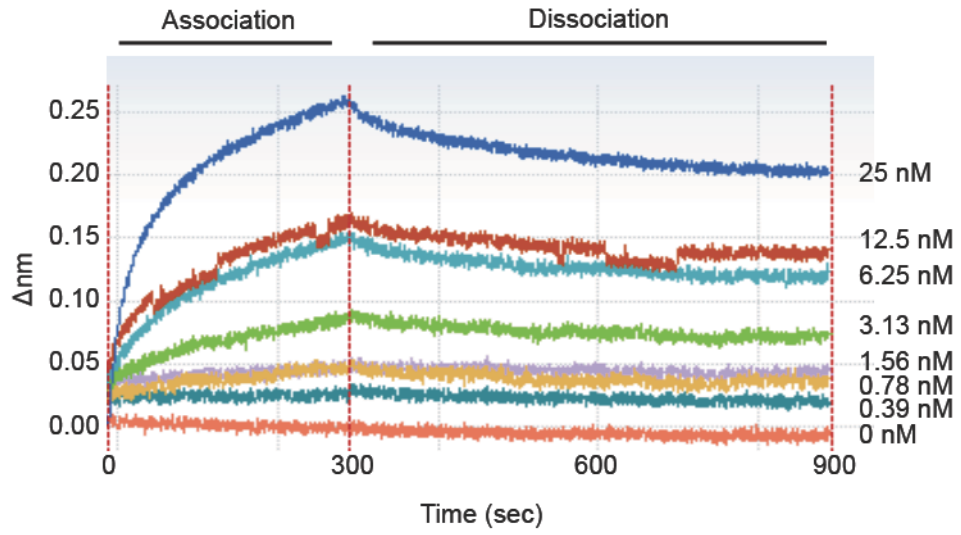


Protein	K_D (M)	K_{on} ($M^{-1} s^{-1}$)	K_{off} (s^{-1})
B2FΔTM	2.7×10^{-10}	1.3×10^6	3.6×10^{-4}
B2FΔTM-V397G	4.1×10^{-9}	7×10^5	2.9×10^{-3}
B2FΔTM-Q434H	4.8×10^{-10}	5.5×10^5	2.6×10^{-4}
B2FΔTM- V397G/Q434H	1.9×10^{-9}	1.2×10^6	2.2×10^{-3}

Supplemental Table 1. Affinity kinetics of 54G10 to HMPV F protein mutants.

Supplemental Figure 1. Association and dissociation curves of mAbs to the HMPV F protein. (A) 54G10 binds to HMPV F with a K_D in the sub-nanomolar range. (B) Palivizumab does not bind to HMPV F.

Supplemental Figure 2. Delayed HMPV infection after 54G10 prophylaxis. Nasal turbinates (A) and lungs (B) have a significant decrease in virus titer when infected one week after 54G10 prophylaxis, $***p < 0.001$. Virus titer was \log_{10} transformed and analyzed by Student's t-test with 3 mice per group.

A**B**