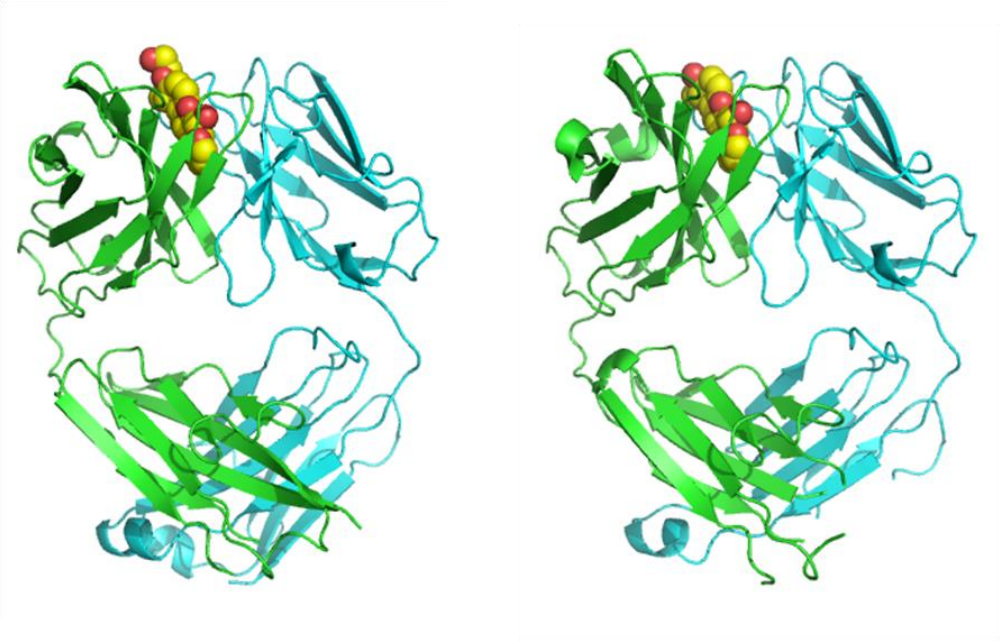
Supporting Information

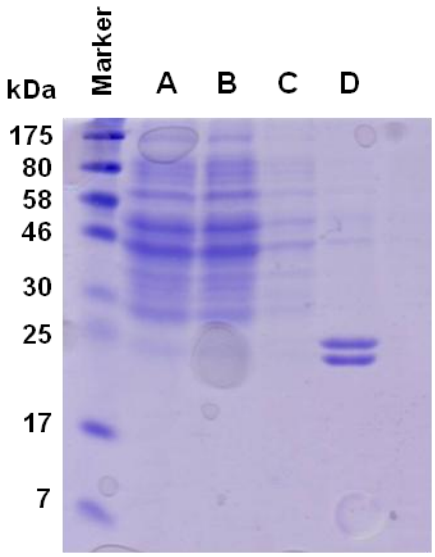
Supplementary Figure 1

(a) (b)



The crystal structures of 10C9Fab complexed with CTX3C-ABCDE (a) and with CTX3C-ABCD (b). Green: heavy chain of 10C9Fab; blue: light chain of 10C9Fab; yellow: carbon atoms in the antigens; red: oxygen atoms in the antigens.

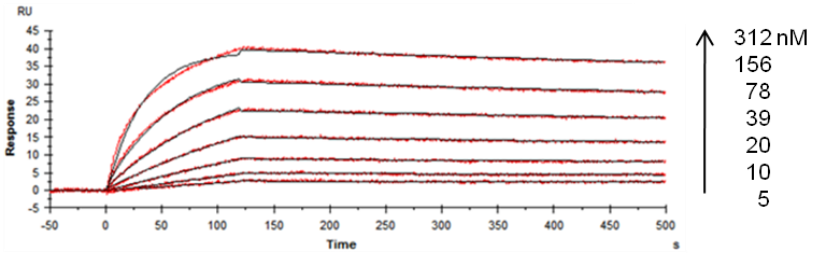
Supplementary Figure 2



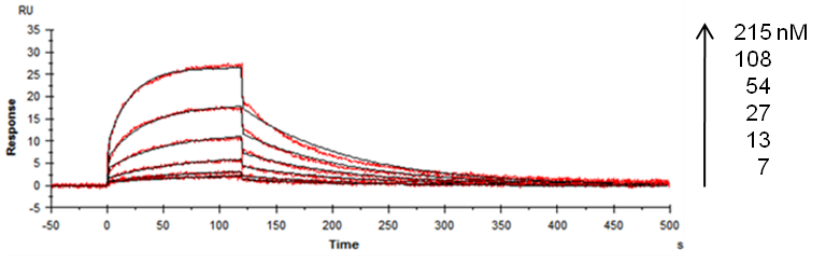
SDS-PAGE of mutant protein H-N58-A purified by protein G affinity chromatography. The lanes are as follows: unpurified lysate (A), unbound fraction (B), washing fraction (C), and elution fraction (D) of 200 μL culture.

Supplementary Figure 3

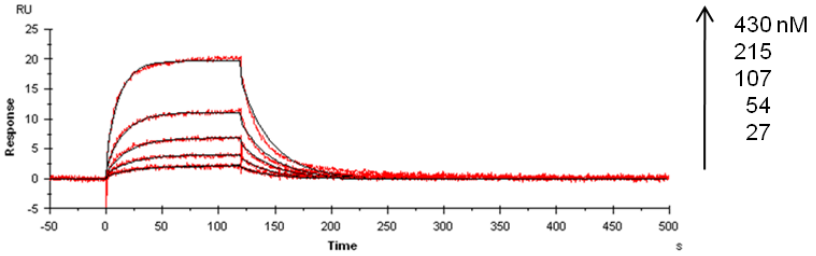
(a)



(b)



(c)



The surface plasmon resonance sensorgrams of wild-type 10C9Fab (a), H-H35a-A (b), and L-N94-A (c) upon interaction with CTX3C-ABCDE. Experimental data obtained at various analyte concentrations are shown as red lines, and the results of global fitting kinetic analyses are shown as black lines.