Human IgA-binding Peptides Selected from Random Peptide Libraries: Affinity Maturation and Application in IgA Purification

Supplementary Figures

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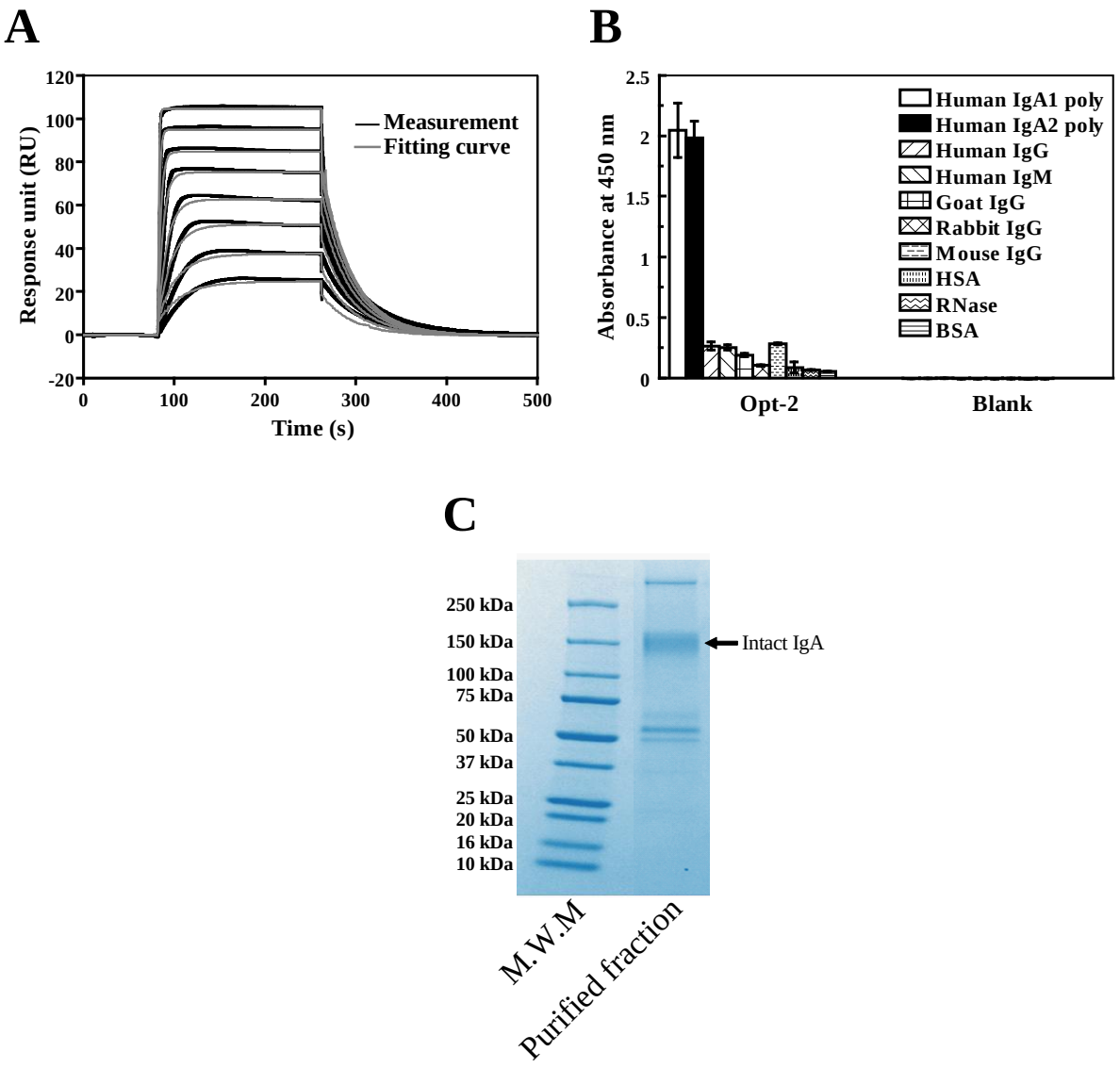
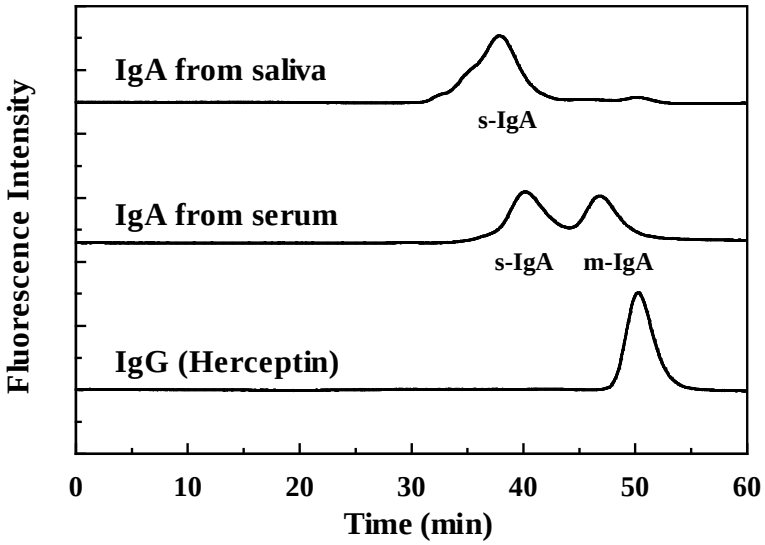


Supplementary Figure 1. The characteristics of the Opt-2 peptide.

A, sensorgram showing the binding between IgA2 immobilized on a CM5 sensor chip and the Opt-2 peptide. *B*, ELISA was performed to examine the binding specificity of Opt-2. Blank indicates measurement without the peptide. *C*, purification of IgA from human plasma using Opt-2 peptide-conjugated column. M.W.M indicates the molecular weight maker.



Supplementary Figure 2. Size-exclusion chromatography of purified IgA.
Size-exclusion chromatography was performed using Superdex 200 10/30 GL column (GE Healthcare) equilibrated with PBS (pH 7.4) at a flow rate of 0.25 mL/min. IgA purified from human serum and saliva using the A2 peptide-conjugated column was injected into the Superdex column. Protein elution was monitored by fluorescence emission at 350 nm after excitation with UV radiation at 280 nm.