Supporting Information for

Nanofluidic Preconcentration Device in a Straight Microchannel
Using Ion Concentration Polarization

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SI Figure 1 (a) Lengths and fluorescent signals of the depletion region depending on patterned Nafion width. (b) Current value after concentration for 30 minutes.
**SI Figure 2** The behavior of concentration sample and depletion region depending on the Nafion membrane thickness.
SI Figure 3  (a) Prepacking method of the Nafion membrane in the center of the silicon microchannel. (b) Antibody (biotin conjugated anti-CRP (50 µg/mL)) patterning by microflow method on PDMS substrate and incubation (30 min.). The PDMS substrate was integrated with the Quake valves. Then, BSA (1 wt%) coating to prevent nonspecific binding (10 min).