

Supplementary Materials

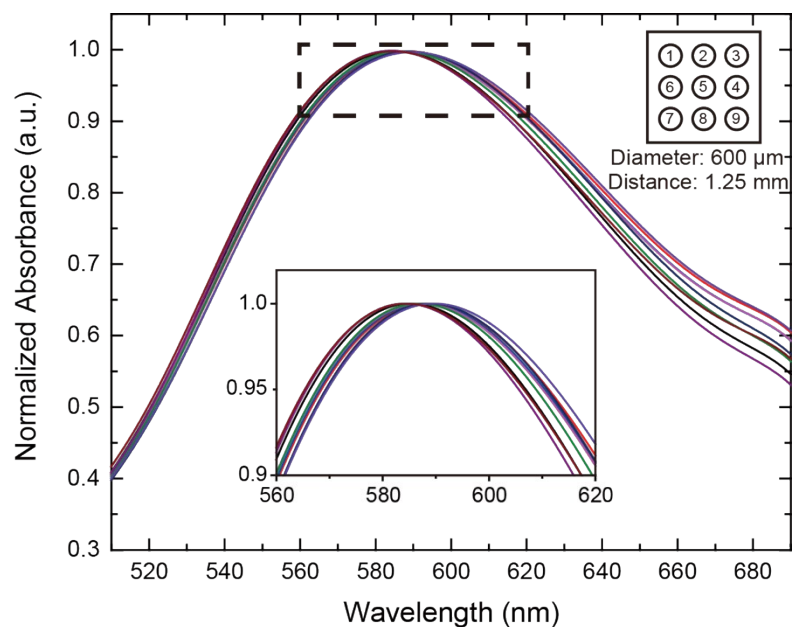


Figure S1. Absorbance spectrum uniformity of LSPR sensor. The standard deviation was 1.9 nm ($n = 9$).

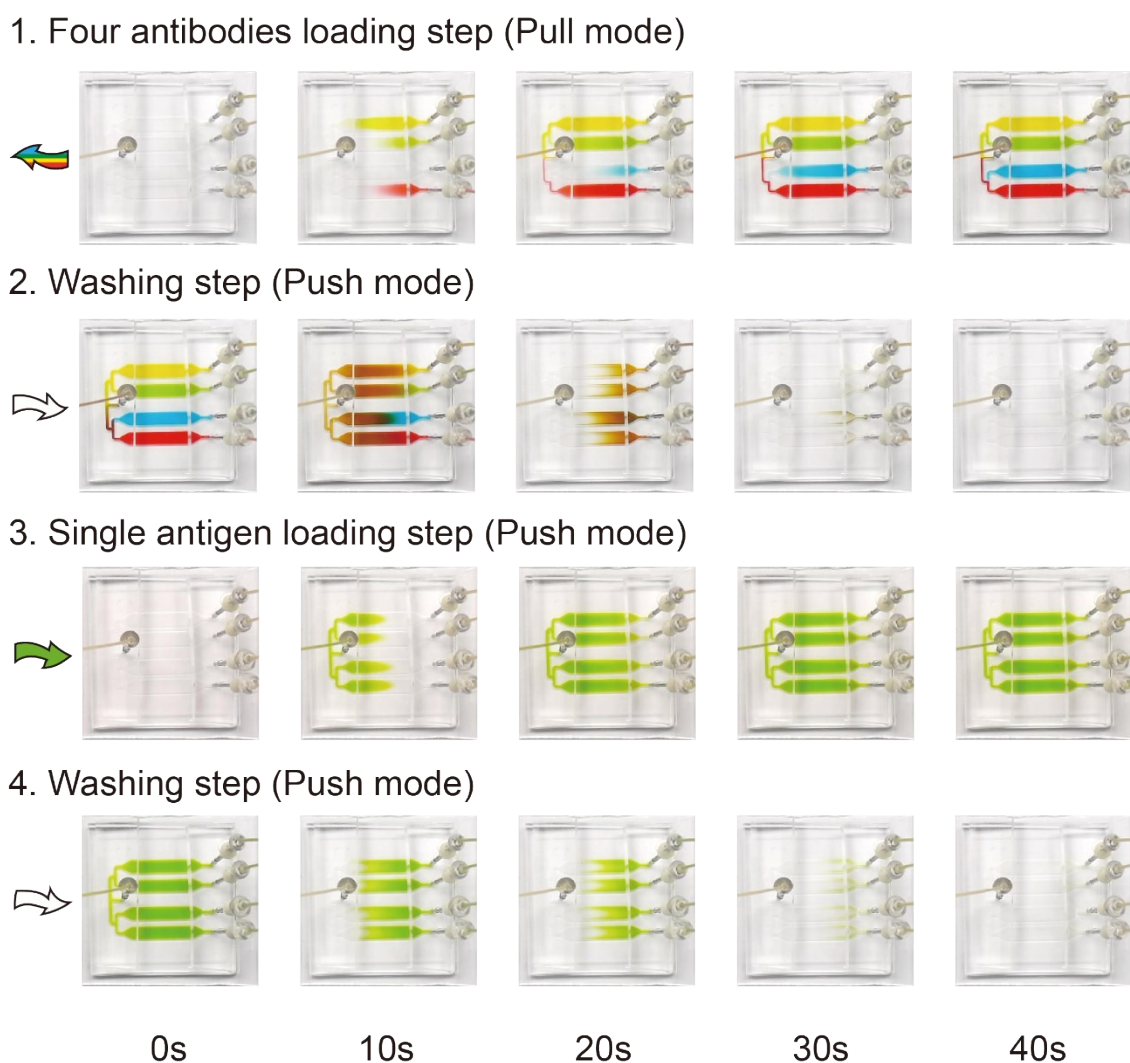


Figure S2. The time-lapsed photo showing four different colors of food dyes loaded into the microfluidic device to simulate the liquid flow in the multiplex sensing approach. The arrows indicate the flow direction. The operation can be briefly divided into four steps. (1) Four antibodies loading step: four different colors of food dyes used to simulate the different antibodies were drawn into the individual channels from the right ports; (2) Washing step: the remaining reagents were washed out for the following operation; (3) Single antigen loading step: single color food dye simulating a single antigen was pushed into four channels from the left port; (4) Washing step: the remaining reagents were washed out. Each step took 40 s.