Supplementary Materials: Real-time Monitoring and Detection of Single-cell Level Cytokine Secretion using LSPR Technology

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Figure S1. Negative control group of anti-IgA to confirm the peak wavelength shift before and after binding.

Figure S2. Cell trapping and washing procedures. After cell sedimentation, we use the syringe to provide fluid power which could help to pipe out the extra media and cells from the device to increase the single cell occupancy efficiency.

Figure S3. Single cell secreted IL-6 monitoring.
Figure S4. Calibration curve for concentrations 1 ng/mL, 10 ng/mL, 25 ng/mL, 100 ng/mL, 200 ng/mL, 500 ng/mL, 750 ng/mL and 1000 ng/mL IL-6 peak wavelength using fabricated plasmonic device in dry conditions (dry with pure N₂ gas).