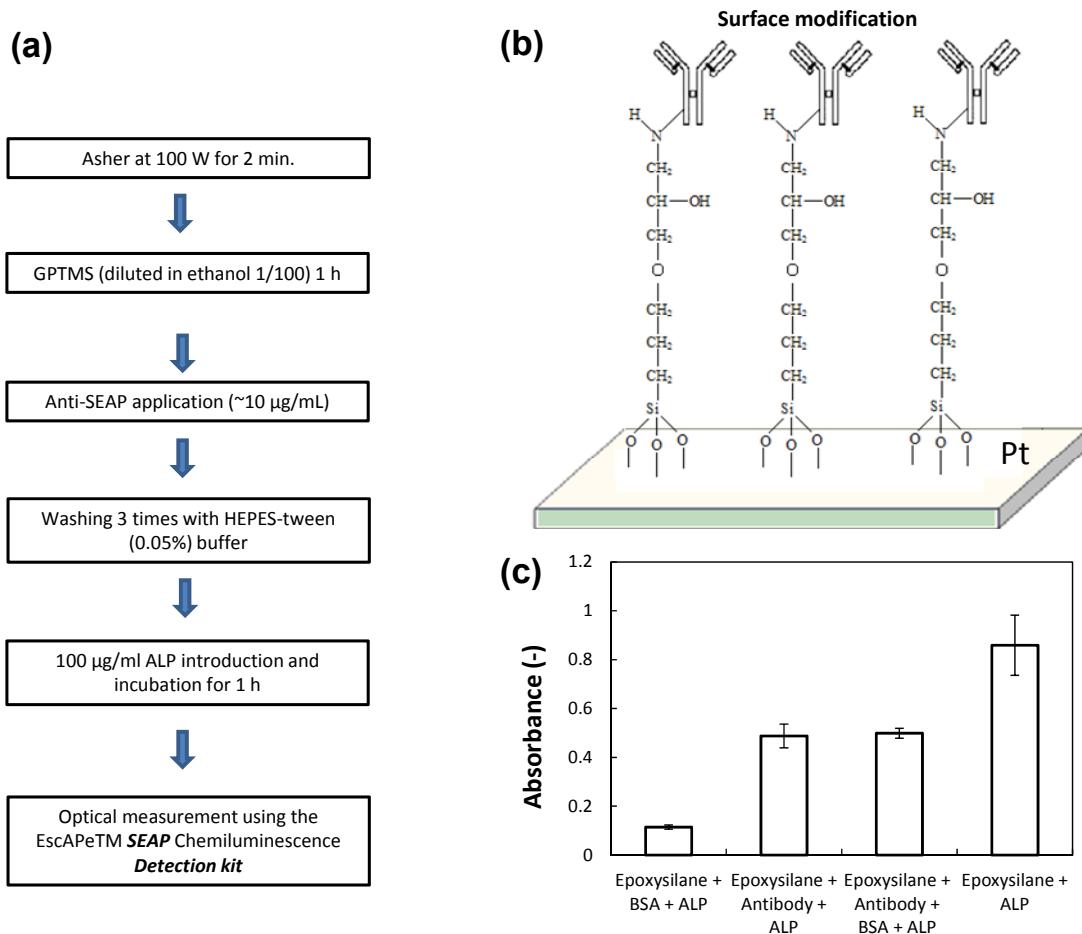
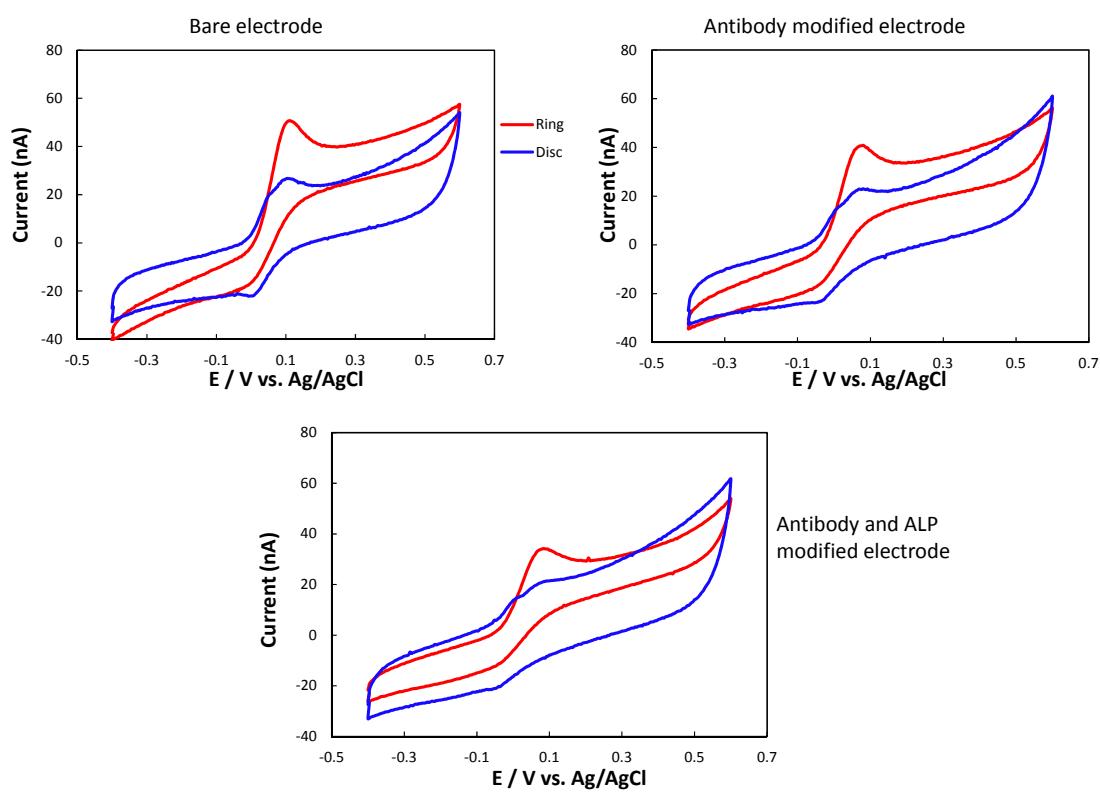


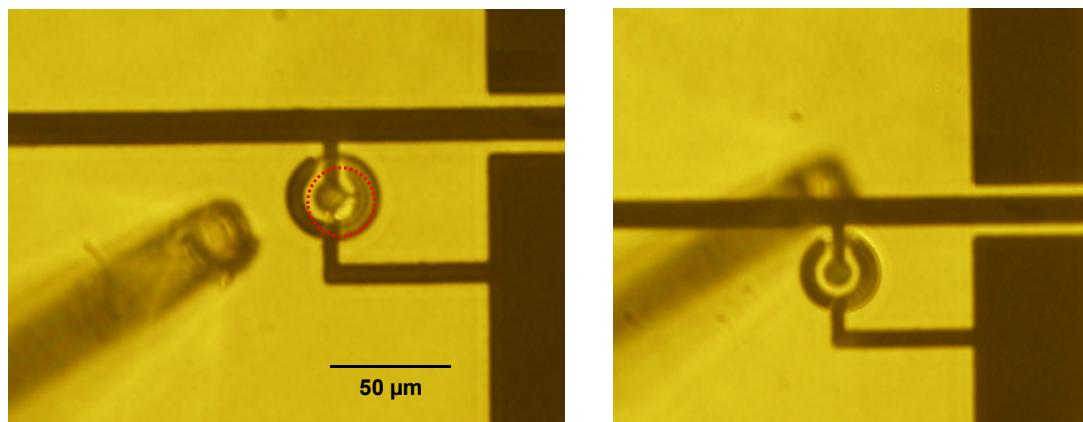
Supporting Information



Supporting Information Figure 1. The modification of platinum surface with antibody.
(a) The detailed modification process. For the modification process a small glass-slide sputtered with Pt (12.5×12.5 mm) was used. (b) An illustration of the antibody modification on the Pt surface. (c) Four different conditions were tested using an optical method and the results were plotted.



Supporting Information Figure 2. Cyclic voltammograms showing the effect of modification on electrode sensitivity. Three different conditions tested: bare electrode, antibody modified electrode and antibody + ALP modified electrode. The potential of both row (ring) and column (disk) electrodes was scanned from -0.40 to 0.60 V vs. Ag/AgCl (scan rate = 100 mV/s).



Supporting Information Figure 3. Images showing cell retrieval in the open microenvironment using a capillary.