

Supporting Information

Multiplexing determination of lung cancer biomarkers using electrochemical and surface-enhanced Raman spectroscopic techniques

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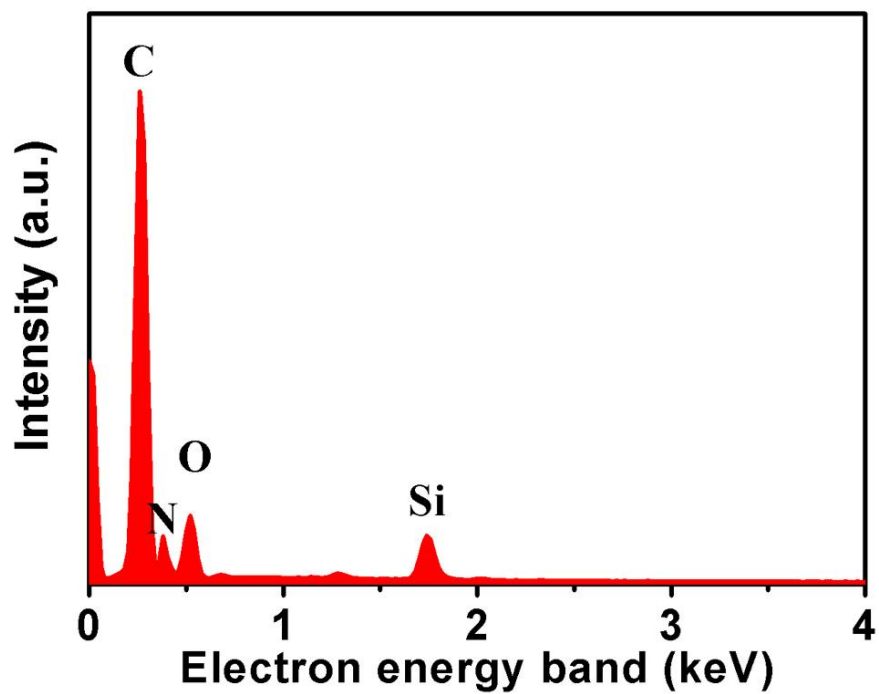


Figure S1 The energy-dispersed spectrum of the AAR microspheres.

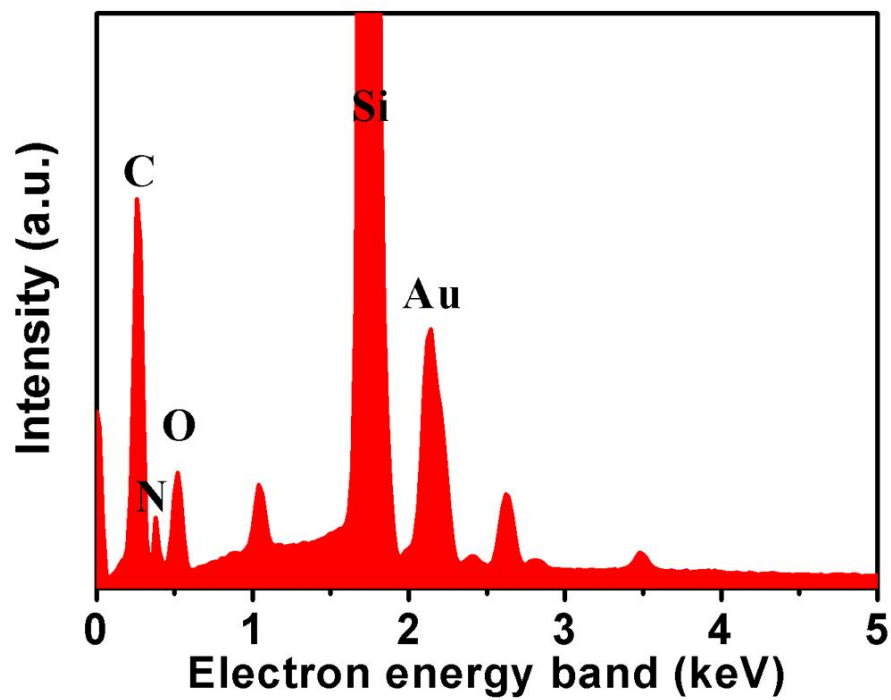


Figure S2 The chemical structure of the AuNPs/AAR microspheres.

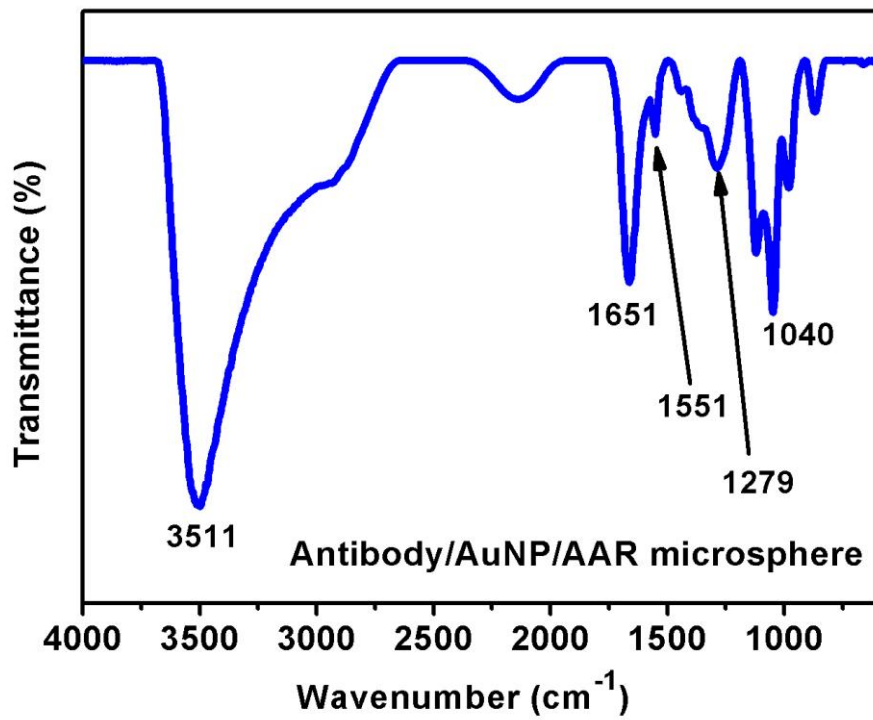


Figure S3 FT-IR spectra of the anti-CEA and anti-CK-19 decorated AuNPs/AAR microspheres.

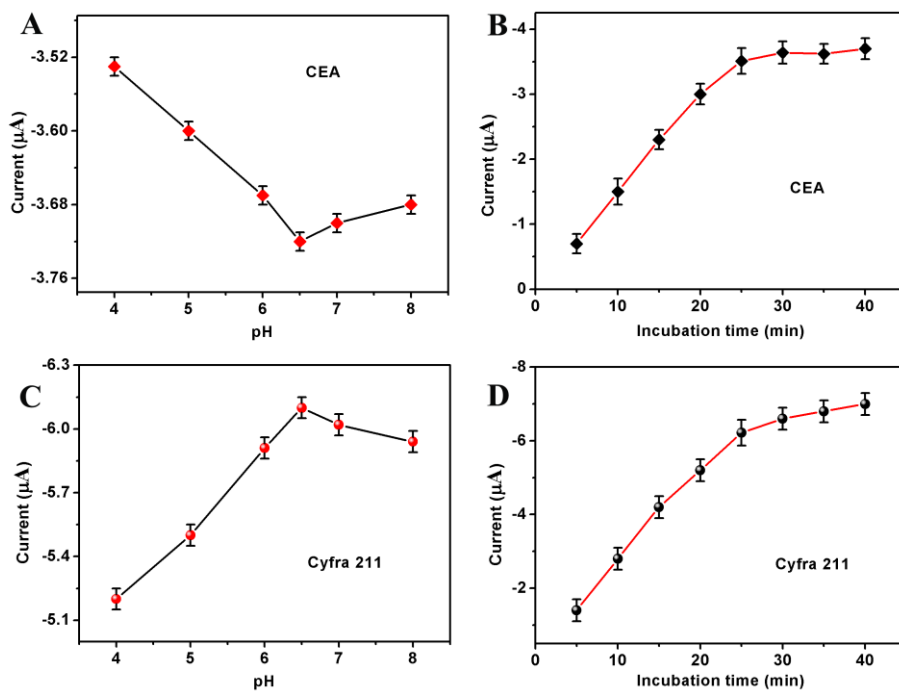


Figure S4 Effects of (A) pH of detection solution and (B) incubation time on SWV responses to 10 ng/mL of CEA at the modified electrode. Effects of (C) pH of detection solution and (D) incubation time on SWV responses to 10 ng/mL of CK-19 at the modified electrode.

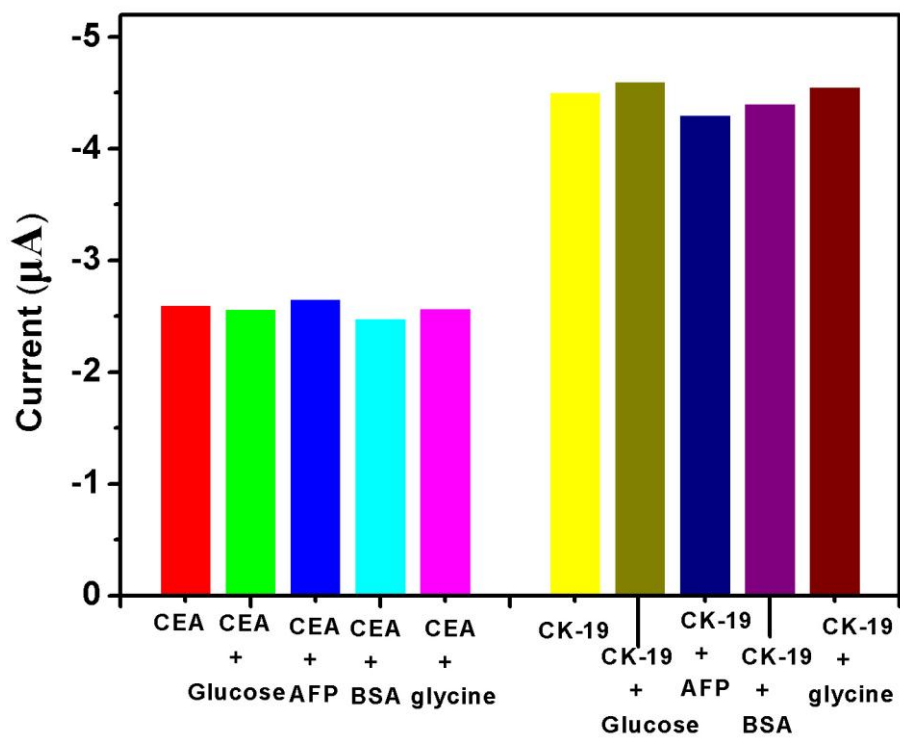


Figure S5 Current response of the immunosensor to the 10 ng/mL of CEA and CK-19 solution containing 50 ng/mL of interfering substances.