Supporting information

An antifouling electrochemical immunosensor for carcinoembryonic antigen based on hyaluronic acid doped conducting polymer PEDOT

Wei Wang\textsuperscript{a}, Min Cui\textsuperscript{a}, Zhiling Song\textsuperscript{a} and Xiliang Luo\textsuperscript{a*}

Key Laboratory of Sensor Analysis of Tumor Marker, Ministry of Education, College of Chemistry and Molecular Engineering
Qingdao University of Science and Technology
Qingdao 266042, China

E-mail: xiliangluo@qust.edu.cn

Supporting information: Figure S1, Figure S2 and Figure S3.
Figure S1. EDS spectrum and elemental analysis of PEDOT/HA composite.
Figure S2. CV responses (100 cycles) of PEDOT/PSS/GCE (D) and PEDOT/HA/GCE (E) in 100% serum concentration. (F) Corresponding reductive peak currents of different cycles of PEDOT/PSS and PEDOT/HA in 100% serum concentration.
Figure S3. Stability of the PEDOT/HA stored at ambient conditions over a half month. DPV measured in 0.2 M PBS (pH 7.4) containing 5.0 mM [Fe(CN)$_6$]$^{3-}$ and 0.1 M KCl, and the initial peak current was taken as 100%. Error bars demonstrate the standard deviation of three measurements.