

Supporting information

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

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Supporting information: Figure S1, Figure S2 and Figure S3.

Figure S1

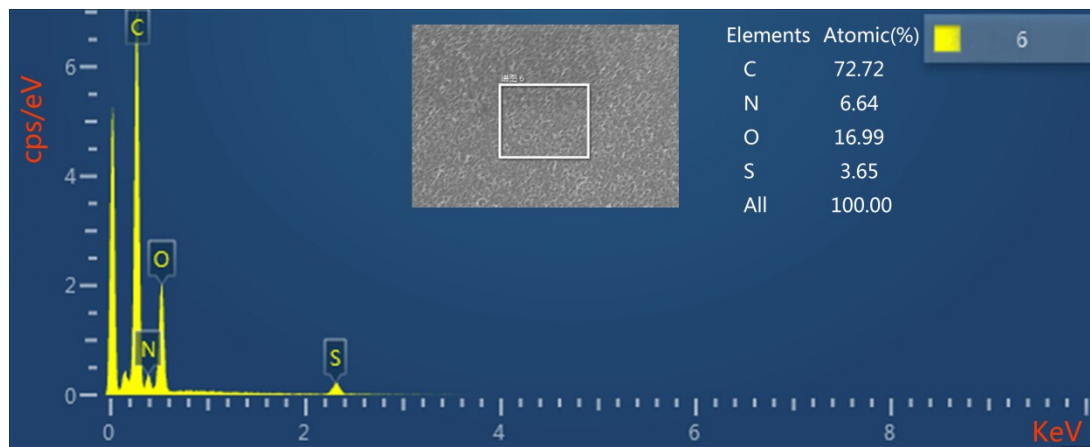


Figure S1. EDS spectrum and elemental analysis of PEDOT/HA composite.

Figure S2

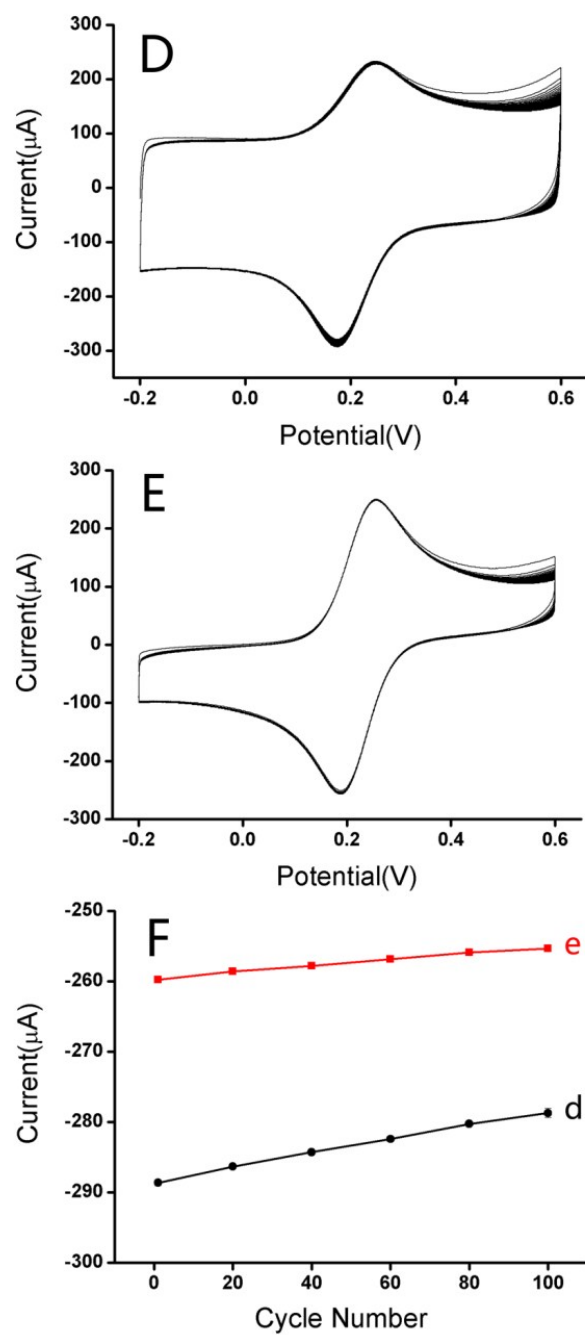


Figure S2. CV responses (100 cycles) of PEDOT/PSS/GCE (D) and PEDOT/HA/GCE (E) in 100% serum concentration. (F) Corresponding reductive peak currents of different cycles of PEDOT/PSS and PEDOT/HA in 100% serum concentration.

Figure S3

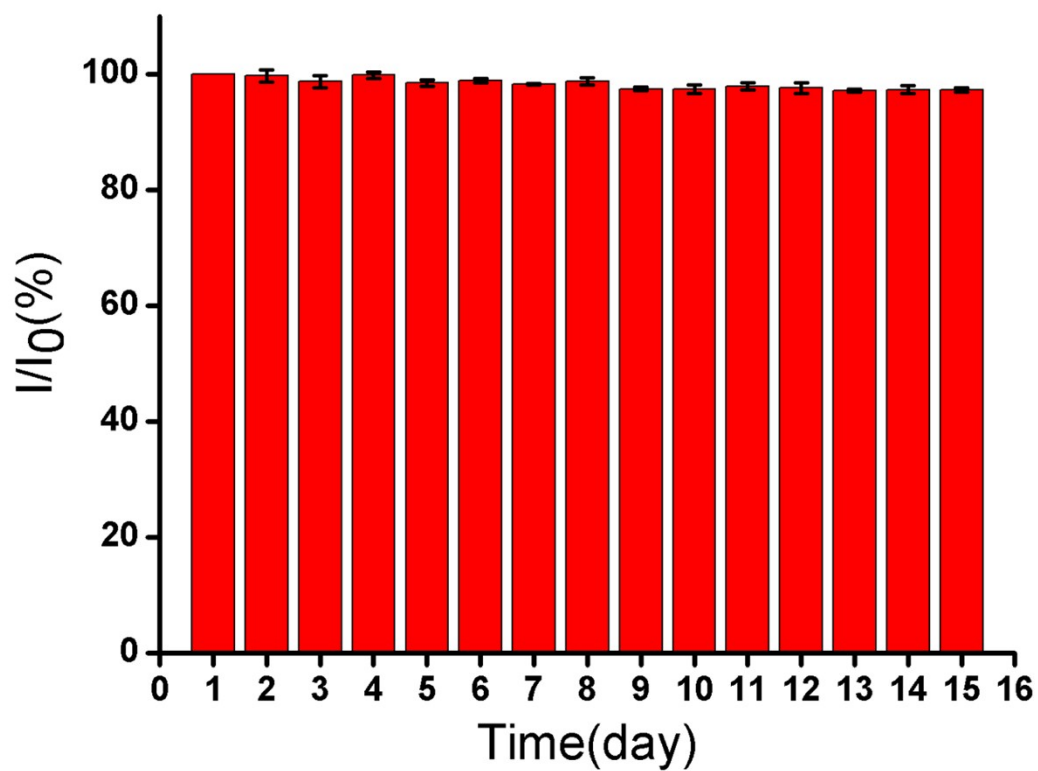


Figure S3. Stability of the PEDOT/HA stored at ambient conditions over a half month. DPV measured in 0.2 M PBS (pH 7.4) containing 5.0 mM $[\text{Fe}(\text{CN})_6]^{3-/4-}$ and 0.1 M KCl, and the initial peak current was taken as 100%. Error bars demonstrate the standard deviation of three measurements.