

Supporting Information

An Enzyme Cascade-based Electrochemical Immunoassay Using Polydopamine-Carbon Nanotube Nanocomposite for Signal Amplification

Yue Zhang, Deng Pan, Qing Zhou, Jinjin Zhao, Ning Pan, Yuanjian Zhang, Li-xin
Wang* and Yanfei Shen*

Medical School, School of Chemistry and Chemical Engineering, Southeast University,
Nanjing, Jiangsu 210009, China

*Email: lxwang@seu.edu.cn (L.W.); Yanfei.Shen@seu.edu.cn (Y.S.)

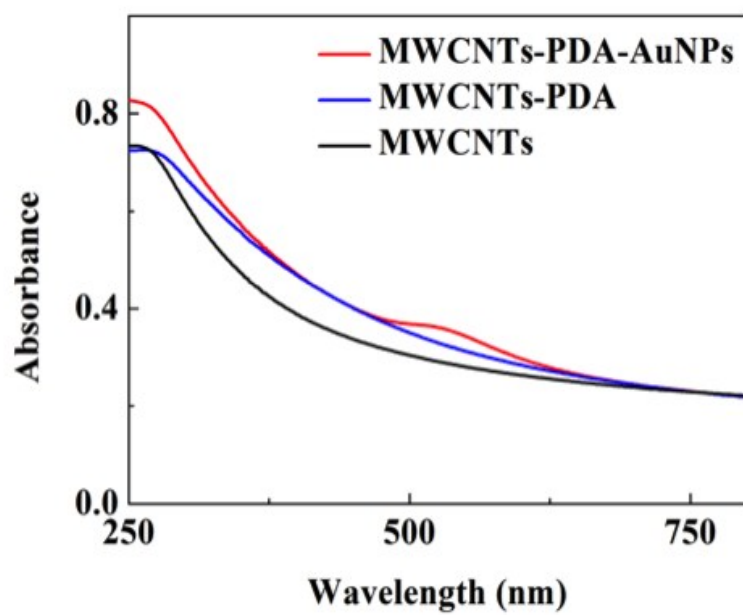


Fig. S1 UV-vis absorption spectra of MWCNTs, MWCNTs-PDA and MWCNTs-PDA-AuNPs.

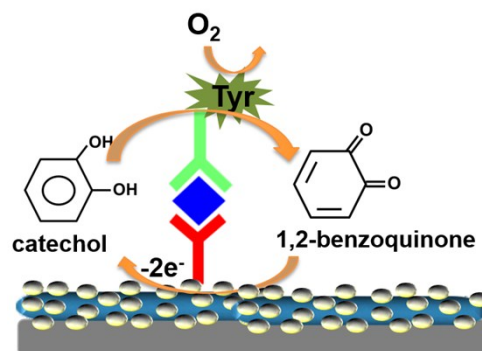


Fig. S2 Schematic illustration of the electrochemical immunosensor for CEA based on single enzyme by using MWCNTs-PDA-AuNPs nanocomposites for signal amplification.

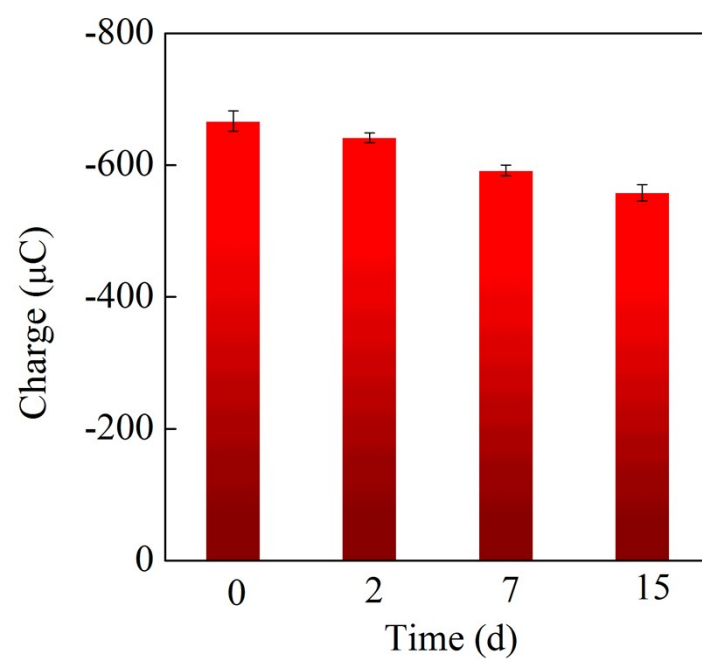


Fig. S3 Stability of the proposed immunosensor for 0 day, 2 days, 7 days and 15 days, respectively. Error bar = SD (n = 4).