

Supplemental Information

Magnetic beads-based electrochemiluminescence immunosensor for determination of cancer markers using quantum dots functionalized PtRu alloy as labels

Yan Zhang,^a Shenguang Ge,^{a,b} Shaowei Wang,^a Mei Yan,^a Jinghua Yu,^{a*} Xianrang
Song,^{c*} Weiyan Liu^a

^a *Key Laboratory of Chemical Sensing & Analysis in Universities of Shandong
(University of Jinan), School of Chemistry and Chemical Engineering, University of
Jinan, Jinan 250022, China*

^b *Shandong Provincial Key Laboratory of Fluorine Chemistry and Chemical
Materials, University of Jinan, Jinan 250022, P.R. China*

^c *Cancer Research Center, Shandong Tumor Hospital, Jinan 250012, P.R. China*

*Corresponding authors: Jinghua Yu, Xianrang Song

E-mail: ujn.yujh@gmail.com (J. Yu); sxr@vip.163.com (X. Song);

Telephone: +86-531-82767161

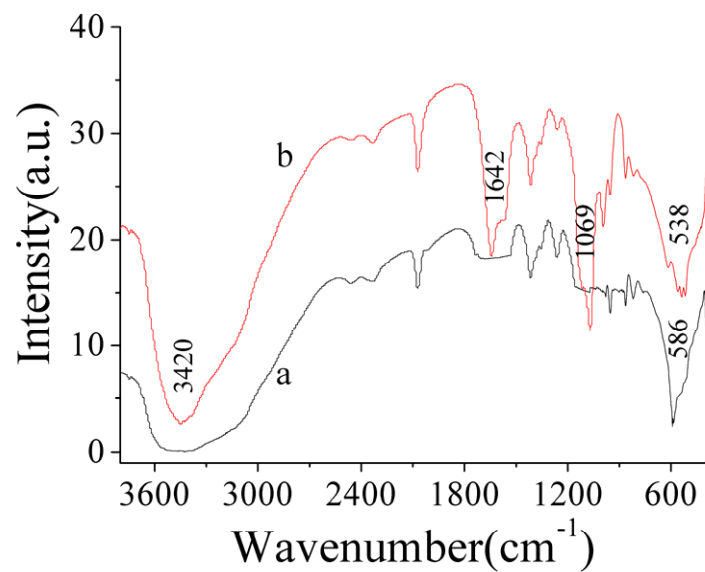


Fig. S1 FT-IR spectra of Fe_3O_4 (a) and $\text{Fe}_3\text{O}_4/\text{CS}$ (b)

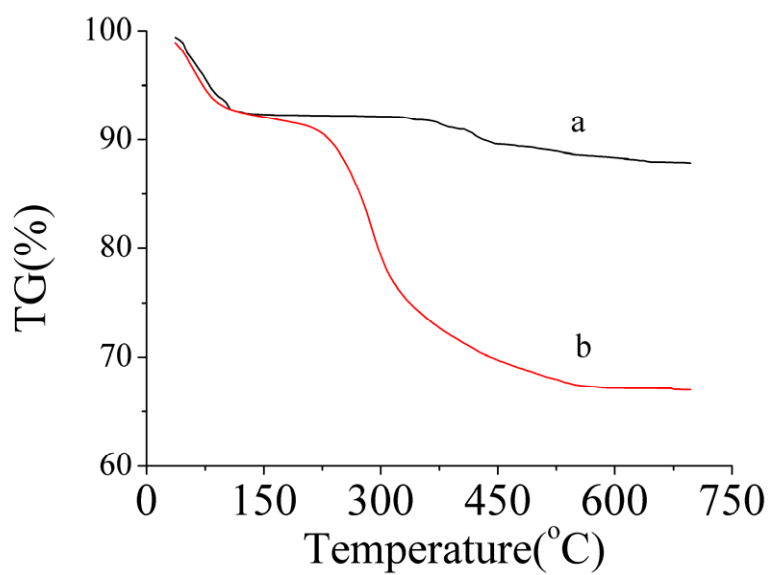


Fig. S2 TG curve of Fe_3O_4 (a) and $\text{Fe}_3\text{O}_4/\text{CS}$ (b) MNPs

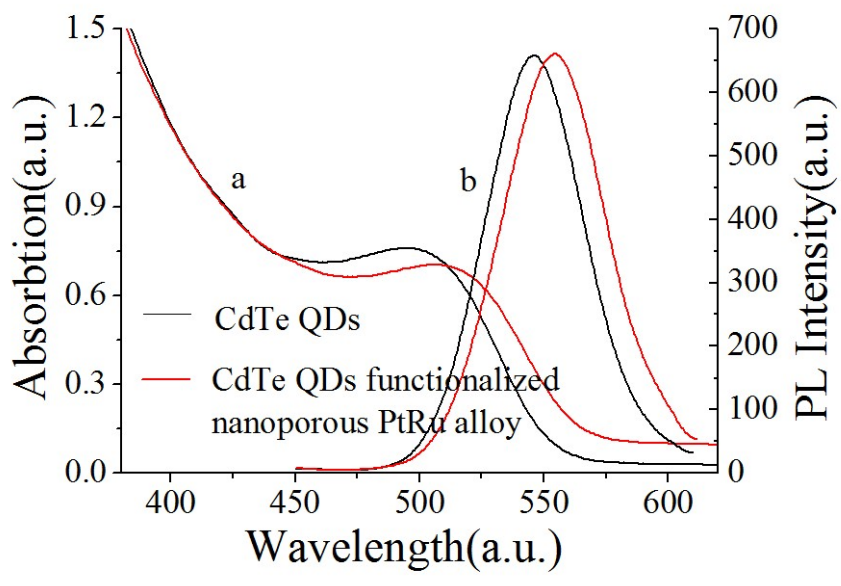


Fig. S3 Absorption (a) and PL (b) spectra of the CdTe QDs and QDs@PtRu