

Electronic Supplementary Information

Ag₂S Quantum Dot-based Magnetic Resonance/Fluorescence Dual-Mode Imaging Nanoprobes for Tumor Diagnosis

Jia-Hua Zou^{‡,a,b}, Li-Li Chen^{‡,a}, Yong-Guo Hu^a, Dong Zhou^b, Yong Li^a, Bin Zhang^a, Xin-Yue Xu^a, Bo Liu^a, Jin-Xuan Fan^{a,*}, and Yuan-Di Zhao^{a,c,*}

^a Britton Chance Center for Biomedical Photonics at Wuhan National Laboratory for Optoelectronics - Hubei Bioinformatics & Molecular Imaging Key Laboratory, Department of Biomedical Engineering, College of Life Science and Technology, Huazhong University of Science and Technology, Wuhan 430074, Hubei, P. R. China.

^b Department of Oncology, Huanggang Central Hospital of Yangtze University, No.126 Qi'an Road, Huangzhou District Huanggang City 438000, Hubei, China.

^c NMPA Research Base of Regulatory Science for Medical Devices & Institute of Regulatory Science for Medical Devices, Huazhong University of Science and Technology, Wuhan 430074, Hubei, P. R. China.

[‡] These authors contributed equally to this work.

E-mail: jxfan@hust.edu.cn (J.X. Fan); zydi@mail.hust.edu.cn (Y.D. Zhao)

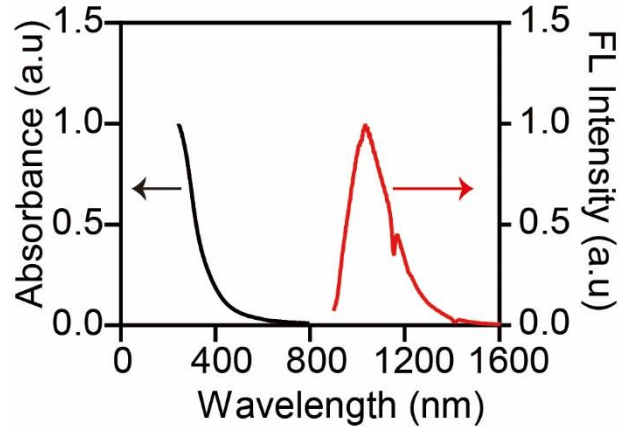


Fig. S1 The UV-Visible absorption spectrum of Ag_2S QDs and its fluorescence emission under 808 nm excitation.

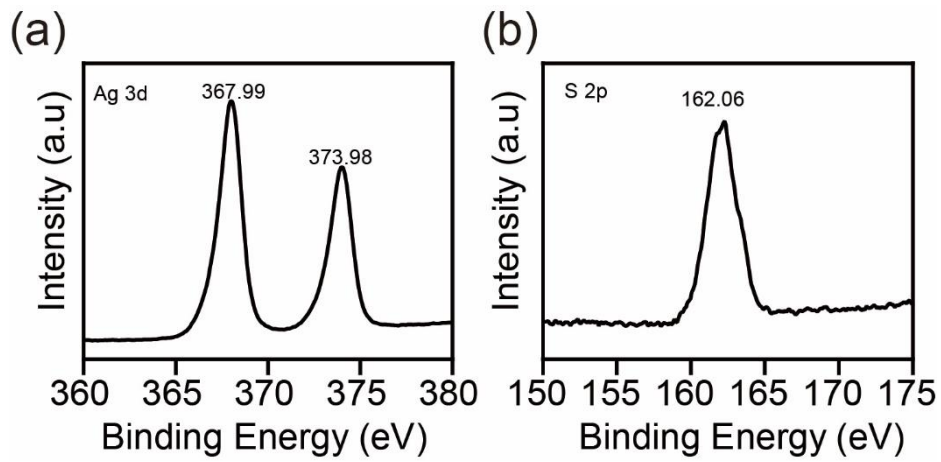


Fig. S2 The XPS spectrum of Ag 3d (a) and S 2p (b) for Ag_2S QDs.

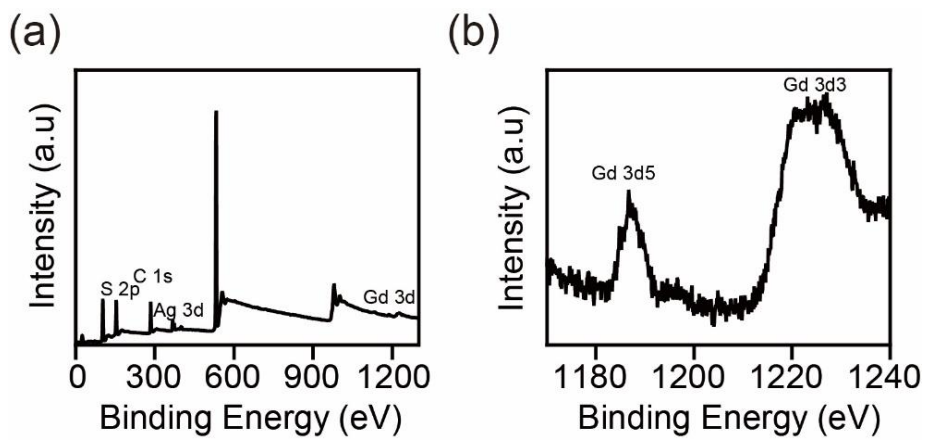


Fig. S3 The full XPS spectrum (a) and the XPS spectrum of Gd 3d for $\text{Ag}_2\text{S}@M\text{-Gd}$.

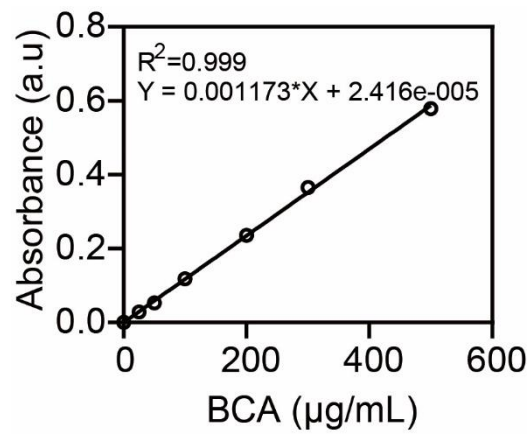


Fig. S4 The BCA standard curve for Ag₂S@M-Gd-Ab.