Electronic Supplementary Material (ESI) for RSC Advances.

Electronic Supplementary Information

Polydopamine assisted versatile modification of nucleic acid probe for intracellular microRNA imaging and enhanced photothermal therapy

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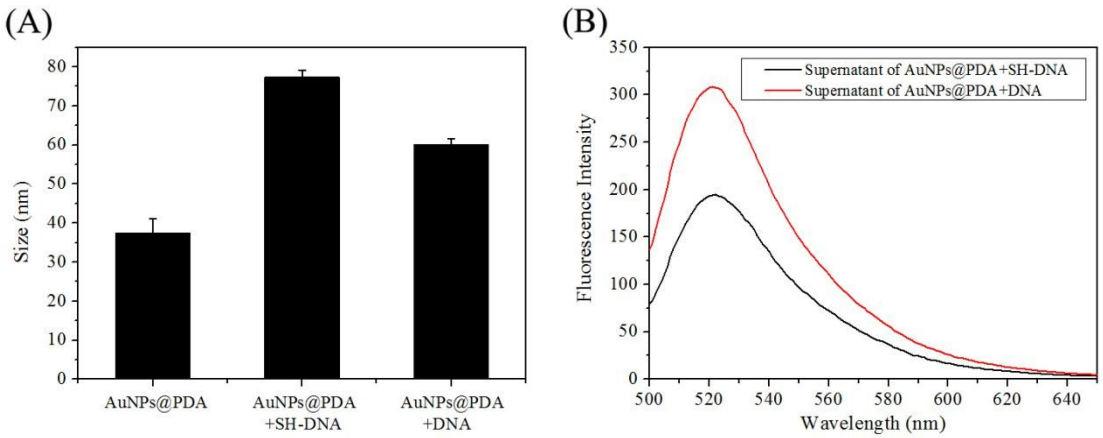

Fig. S1 (A) Hydrodynamic size of AuNPs@PDA and the size after modification with thiol-terminated DNA or unlabeled DNA; (B) The Fluorescence-emission spectra of the diluted supernatant of AuNPs@PDA reacted with thiol-terminated DNA or unlabeled DNA.

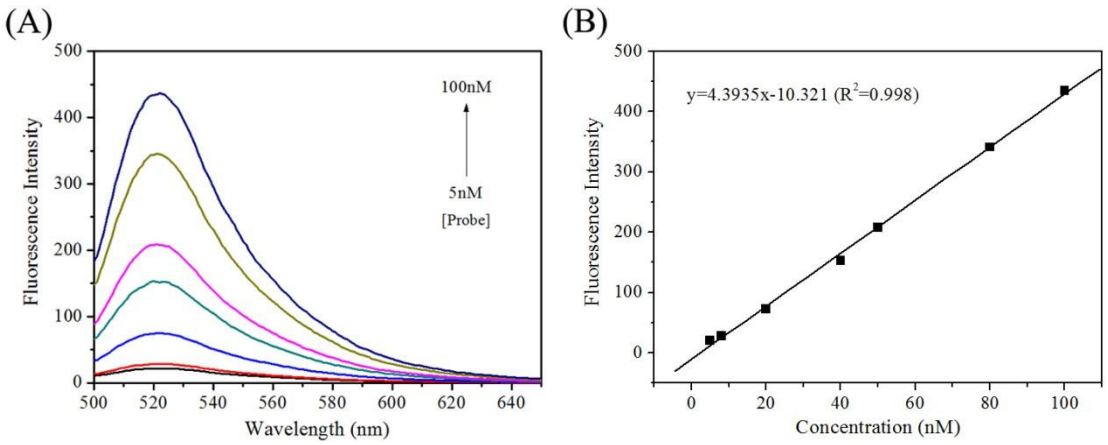

Fig. S2 (A) The Fluorescence-emission spectra of different concentrations of FITC-labelled antisense probe in PBS; (B) the calibration curve for the quantitation of nucleic acid probe.

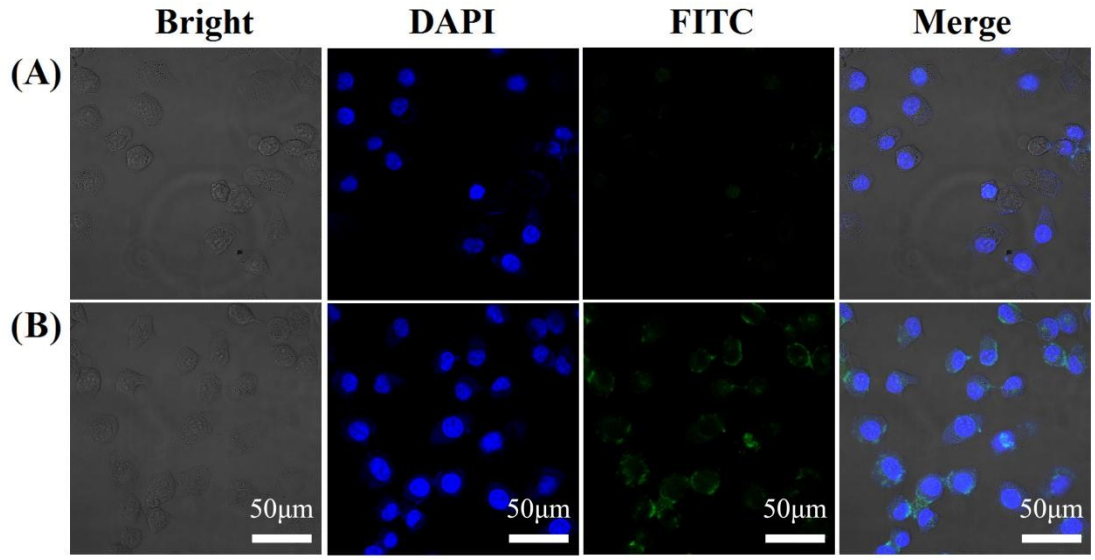

Fig. S3 Confocal images of HepG2 cells with different treatment. (A) cells only; (B) cells incubated with AuNPs@PDA-dsDNA (1 nM) for 2 h. The cells were then fixed with 4 % paraformaldehyde and stained with DAPI before imaging.