

-Supporting Information-

Quantum Dot to Dye Based Fluorescent Ratiometric Immunoassay for an Ischaemic Stroke Biomarker; Glial Fibrillary Acidic Protein

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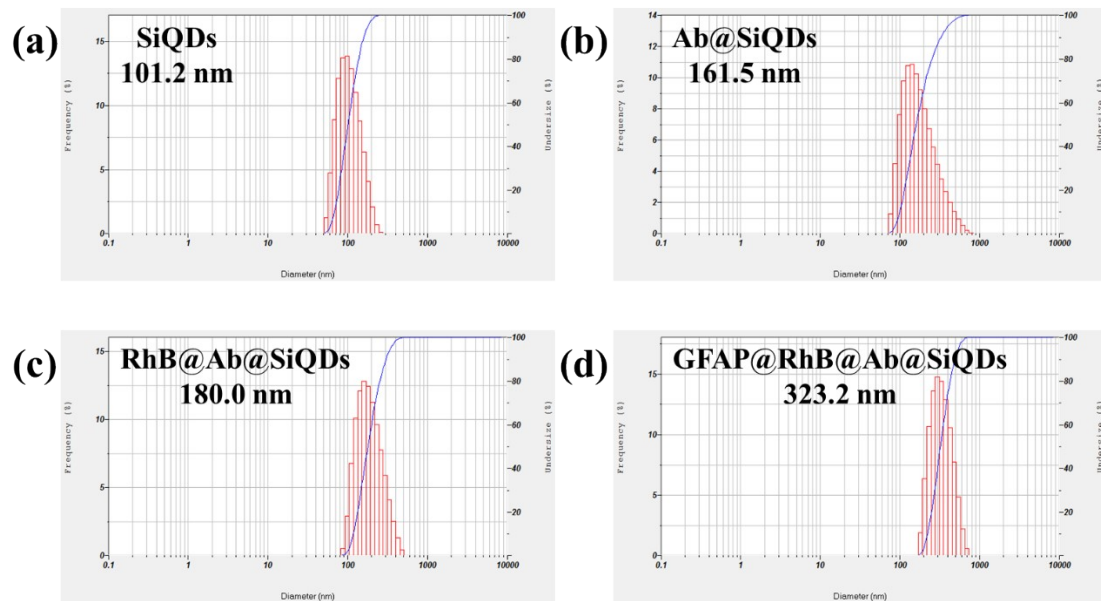


Figure S1. DLS spectrum of (a) SiQDs; (b) Ab@SiQDs; (c) RhB@Ab@SiQDs and (d) GFAP@RhB@Ab@SiQDs

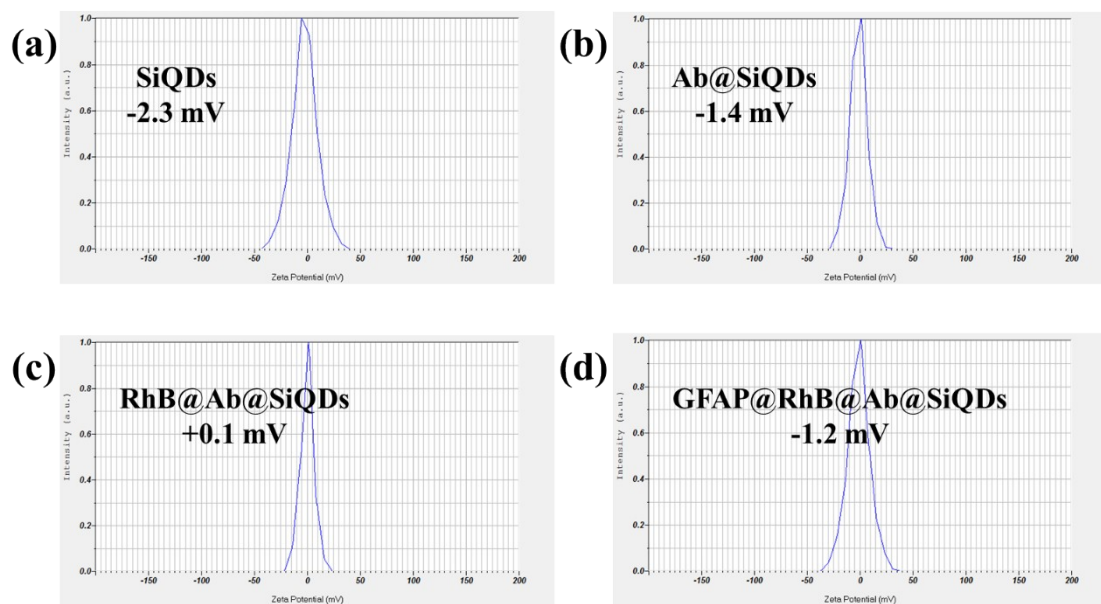


Figure S2. Zeta potential graph of (a) SiQDs; (b) Ab@SiQDs; (c) RhB@Ab@SiQDs and (d) GFAP@RhB@Ab@SiQDs

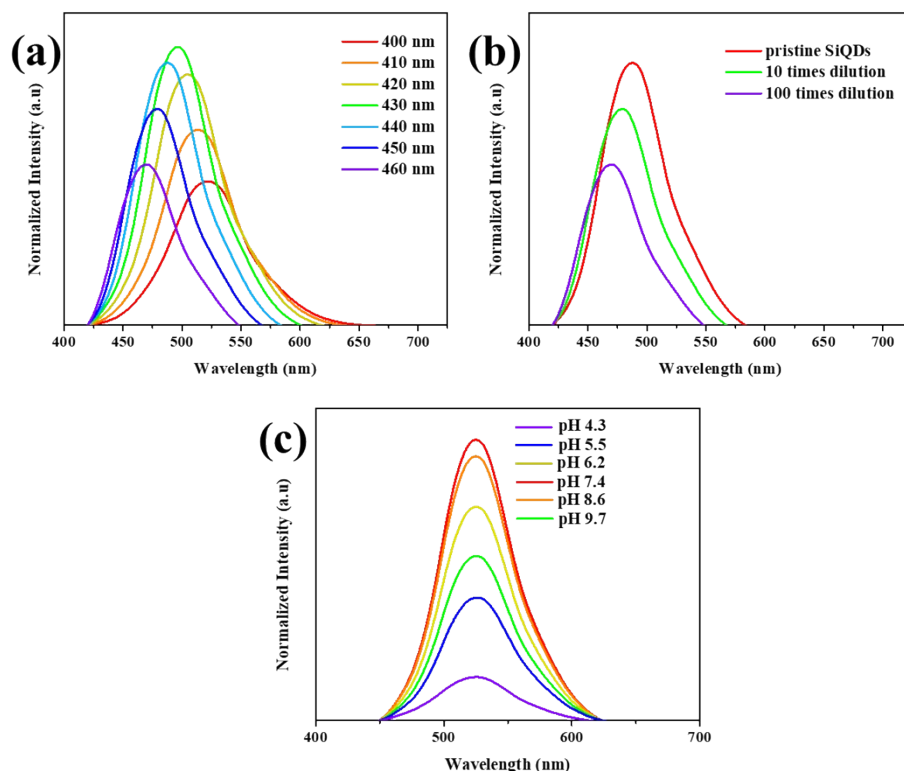


Figure S3. (a) Photoluminescence spectra of SiQDs at various excitation wavelengths (410 nm, 420 nm, 430 nm, 440 nm, 450 nm and 460 nm); (b) Photoluminescence spectra of SiQDs at varying dilution (pristine SiQDs, 10 times diluted SiQDs and 100 times diluted SiQDs); (c) Photoluminescence spectra of SiQDs at varying pH (4.3, 5.5, 6.2, 7.4, 8.6 and 9.7)

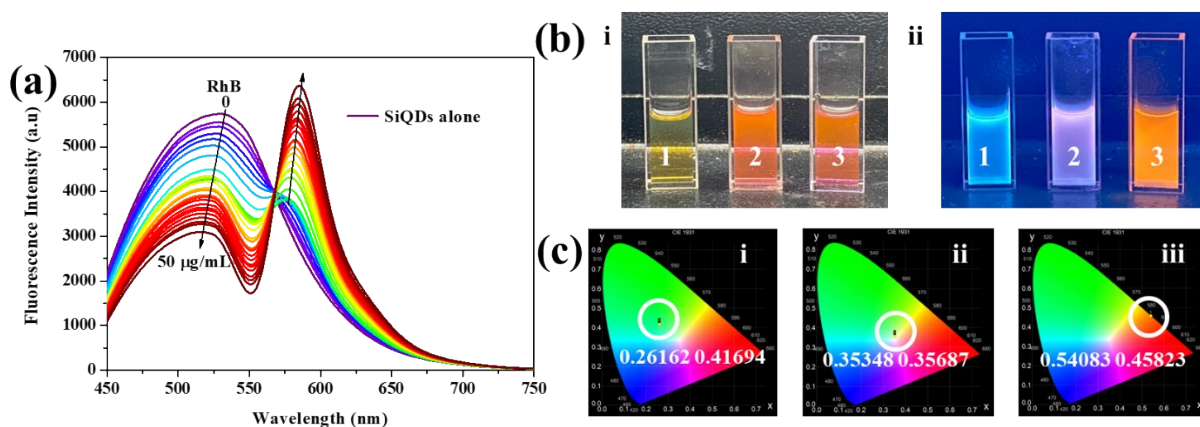


Figure S4. (a) Fluorescence emission spectrum of SiQDs upon incremental addition of RhB; (b) Photographs of 1. SiQDs, 2. SiQDs+RhB, 3. RhB under (i) daylight and (ii) UV light; (c) Chromaticity plot of (i) SiQDs, (ii) SiQDs+RhB and (iii) RhB