## **Supporting Information**

Phenylboronic Acid-Mediated Tumor Targeting of Chitosan Nanoparticles

Xin Wang<sup>1,2</sup>, Huang Tang<sup>1</sup>, Chongzhi Wang<sup>1</sup>, Jialiang Zhang<sup>1</sup>, Wei Wu<sup>1</sup>, Xiqun Jiang<sup>1</sup> ⊠

1. Department of Polymer Science & Engineering, College of Chemistry & Chemical Engineering, Nanjing University, Nanjing, 210093, P. R. China.

2. Engineering Research Center for Biomedical Materials, School of Life Science, Anhui University, Hefei, 230601, P. R. China

 $\boxtimes$  Corresponding author.

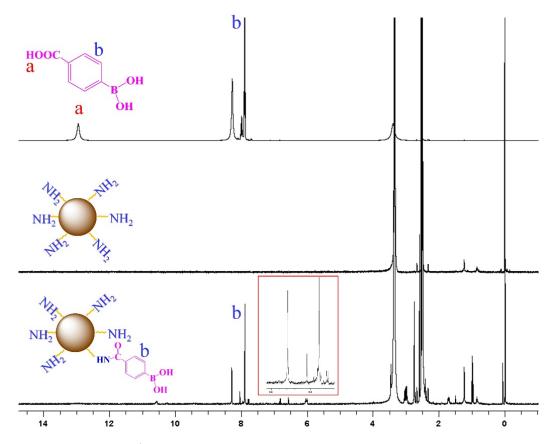
Email: jiangx@nju.edu.cn

**Table S1.** Drug-loaded of CS NPs and PBA-CS NPs at different pH values

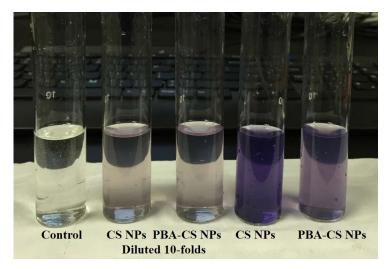
	CS NPs				PBA-CS NPs			
DOX feeding	pH 7.4		pH 8.5		pH 7.4		pH 8.5	
ratio	DLC	DLE	DLC	DLE	DLC	DLE	DLC	DLE
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
0.4	0.9	14.5	2.1	73.2	2.6	18.9	7.3	91.6
0.6	1.3	16.7	3.7	67	3.9	22.3	10.6	88.7
0.8	1.5	12.8	4.3	72.3	4.4	20.6	12.8	85.3
1	2.4	15.1	6.9	61.6	5.1	17.7	13.7	73.2

DLC (%) = Drug loading content

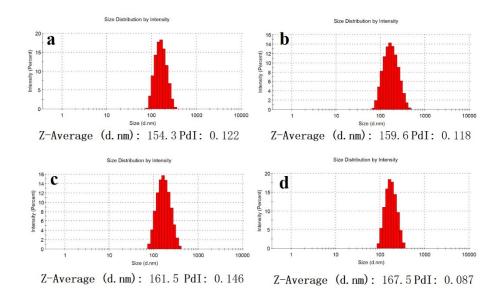
DLE (%) = Drug loading efficiency



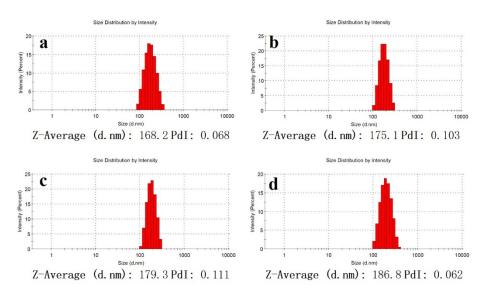
**Figure S1.** <sup>1</sup> H NMR spectra of CPBA, CS NPs and PBA-CS NPs.



**Figure S2.** The modification ratio of 4-CPBA measured by ninhydrin reaction.



**Figure S3.** The stability of CS NPs in different pH values, pH 5.5 (a); pH 6.5 (b); pH 7.4 (c); pH 8.5 (d).



**Figure S4.** The stability of PBA-CS NPs in different pH values, pH 5.5 (a); pH 6.5 (b); pH 7.4 (c); pH 8.5 (d).

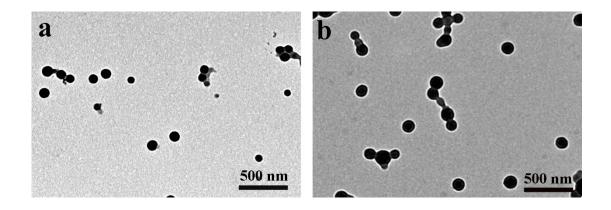
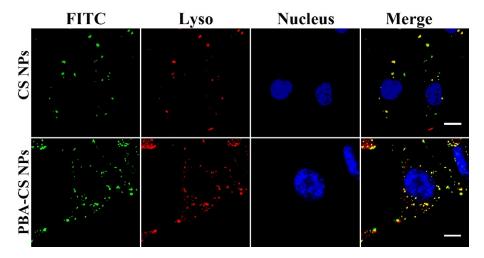


Figure S5. TEM images of PBA-CS NPs (a) and PBA-CS-DOX NPs (b).



**Figure S6.** CLSM images of SH-SY5Y cells incubated with FITC-labeled CS NPs and PBA-CS NPs; Endosomes/lysosomes of the cells are marked by Lyso Tracker and the nuclei were stained with Hoechst 33258, Scale bar =  $10 \mu m$ .