

Supplementary material

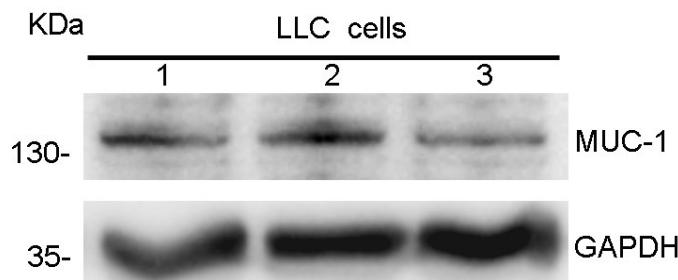


Fig. S1. Western blot analysis of MUC-1 in LLC cells.

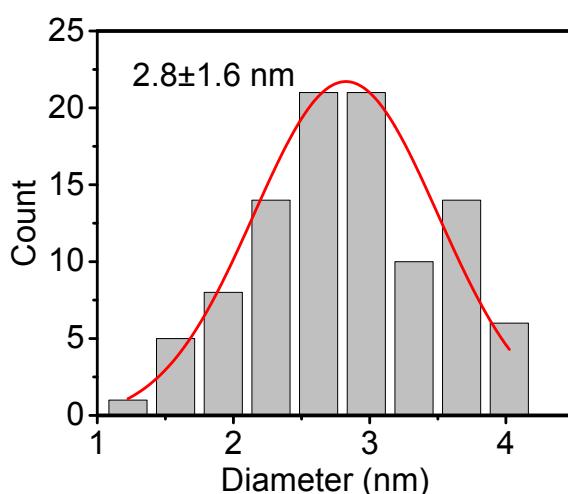


Fig. S2. Statistical analysis of the lateral size of 100 black phosphorus quantum dots measured by transmission electron microscopy.

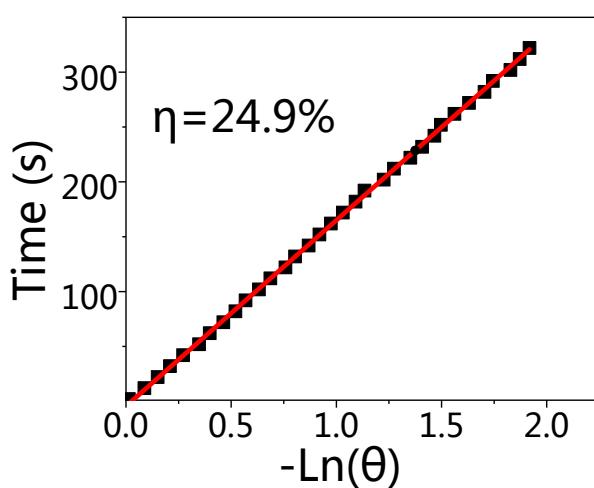


Fig. S3. The linear relationship between $-\ln \theta$ and time obtained from the cooling stage of pure BPQDs

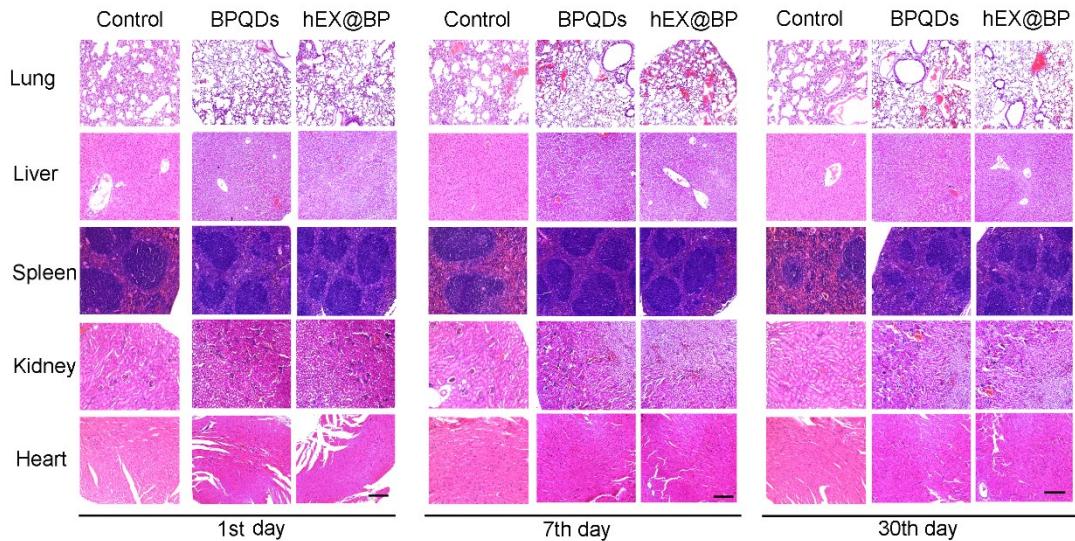


Fig. S4. *In vivo* toxicity of black phosphorus quantum dots (BPQDs) and hEX@BP within main organs. H&E staining of the lung, spleen, kidney, liver, and heart from control, BPQDs (5 mg/kg BPQDs/mouse) or hEX@BP (5 mg/kg BPQDs/mouse)-treated mice at the 1st, 7th, and 30th day post-injection (scale: 100 μ m). Mice in the control group were injected with PBS.