

Targeted drug delivery of near IR fluorescent doxorubicin-conjugated poly(ethylene glycol) bisphosphonate nanoparticles for diagnosis and therapy of primary and metastatic bone cancer in a mouse model

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Supporting information

Figure S1. DLS analysis of doxorubicin-conjugated BP NPs

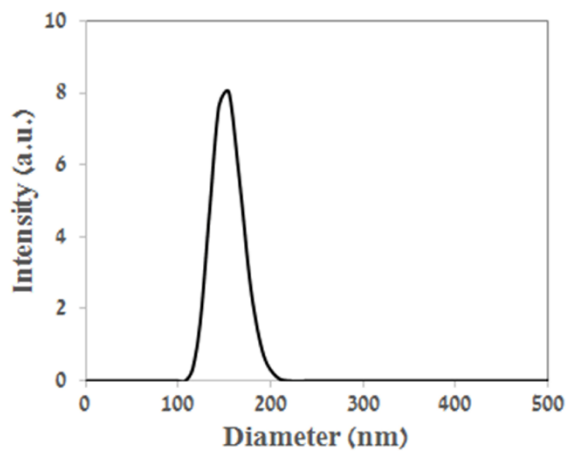


Figure S2. Cell cycle analysis - Gating strategy. Gate SSC/FSC was used to exclude from the cell count fragments and aggregates. For multicolor flow cytometry the cells were treated with A) doxorubicin (analyzed using Cy5) and B) Hoechst (DAPI cell cycle analysis). In both cases untreated cells were used as control. Results were analyzed using FlowJo software according to the Dean-Jett- Fox model.

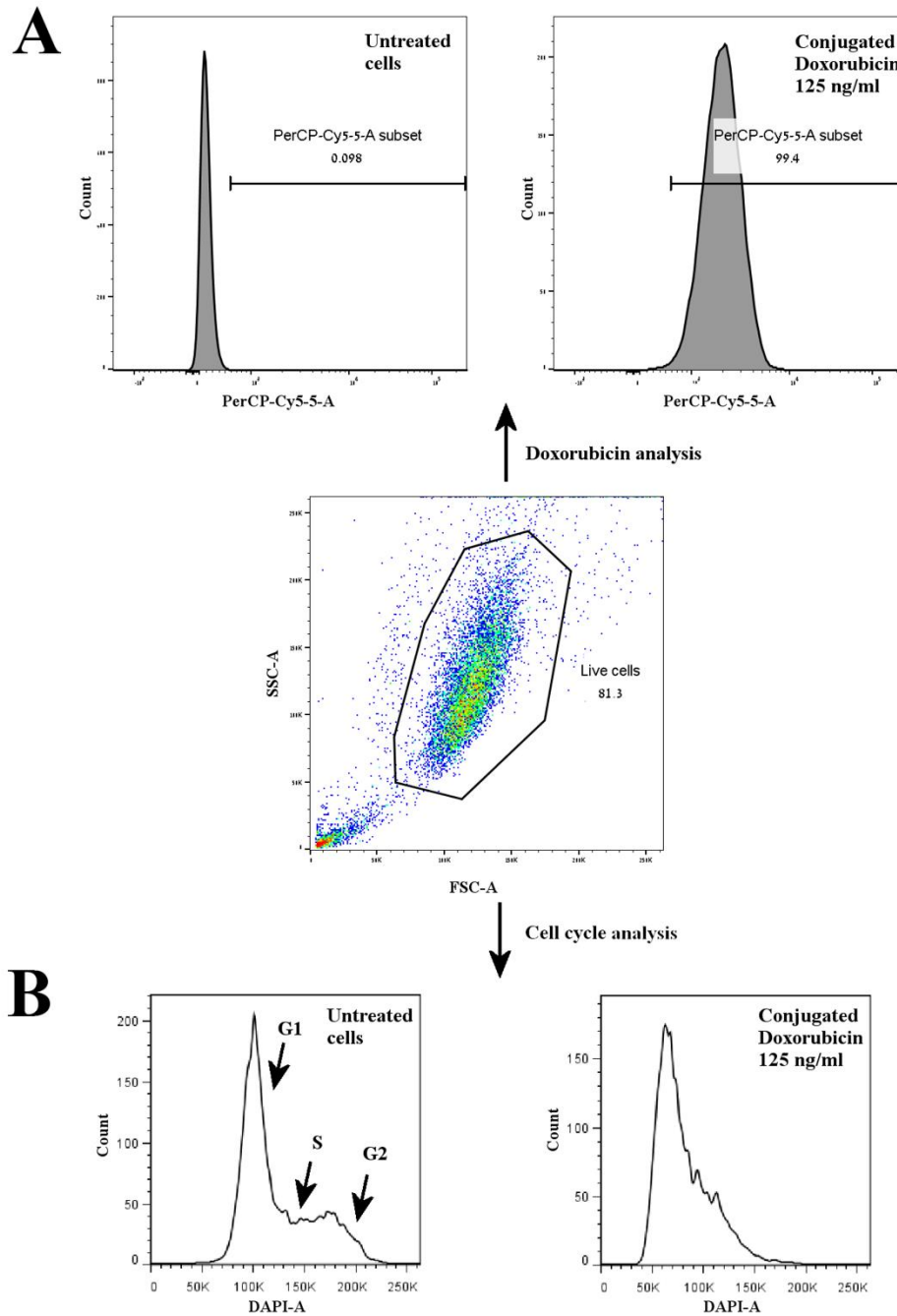


Figure S3. A) Fluorescent images of extracted tumors (delineated areas) after 1 and 7 days post IV injection with Cy7-cojugated BP NPs and control NPs. B) Measurements method using imageJ software.

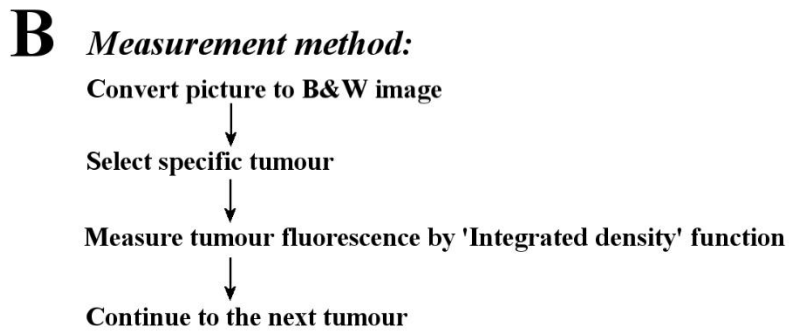
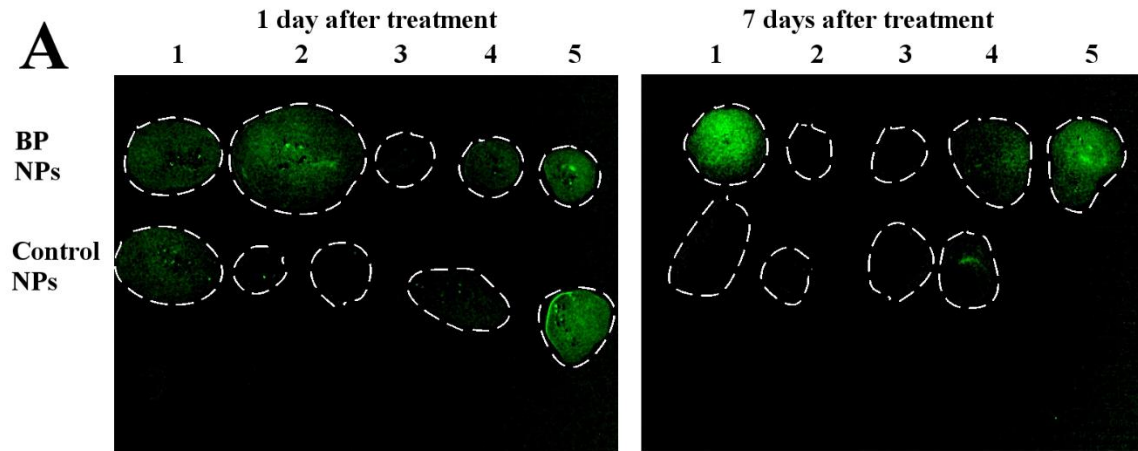


Figure S4. Bright field images of Saos-2 cells following 4h incubation with A) doxorubicin-conjugated BP NPs (0.1 mg/ml), B) BP NPs (0.1 mg/ml) and C) untreated cells. The cells nuclei were stained with Hoechst (blue).

