OMTN, Volume *26*

Supplemental information

Farnesylthiosalicylic acid-derivatized PEI-based nanocomplex for improved tumor vaccination

Yuang Chen, Yixian Huang, Haozhe Huang, Zhangyi Luo, Ziqian Zhang, Runzi Sun, Zhuoya Wan, Jingjing Sun, Binfeng Lu, and Song Li

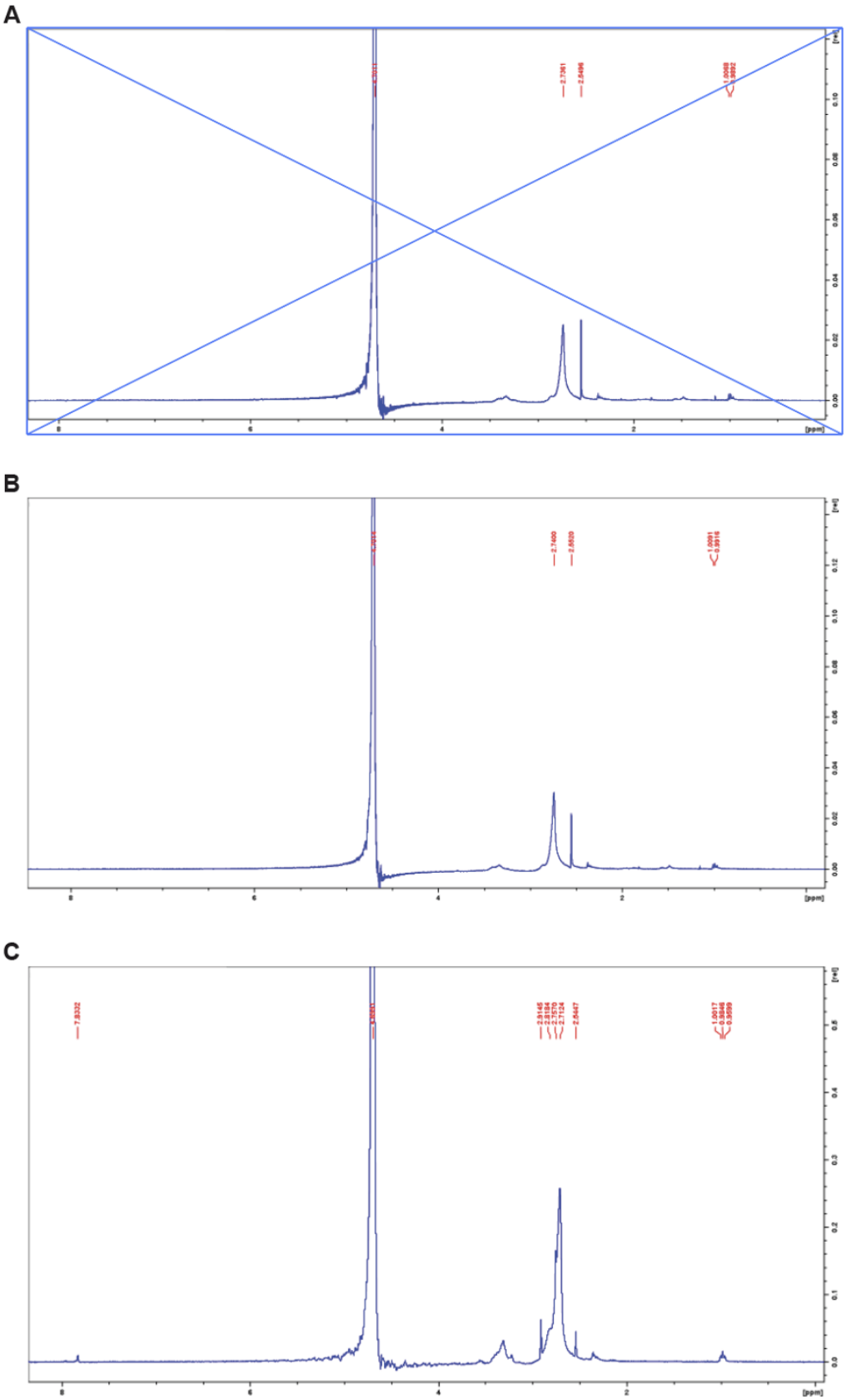

Fig. S1. ^{1}H nuclear magnetic resonance (NMR) spectra. (A) FTS-PEI (5% FTS, PEI Mw = 25k Da). **(B)** FTS-PEI (1% FTS, PEI Mw = 25k Da). **(C)** FTS-PEI (1% FTS, PEI Mw = 2.5k Da).

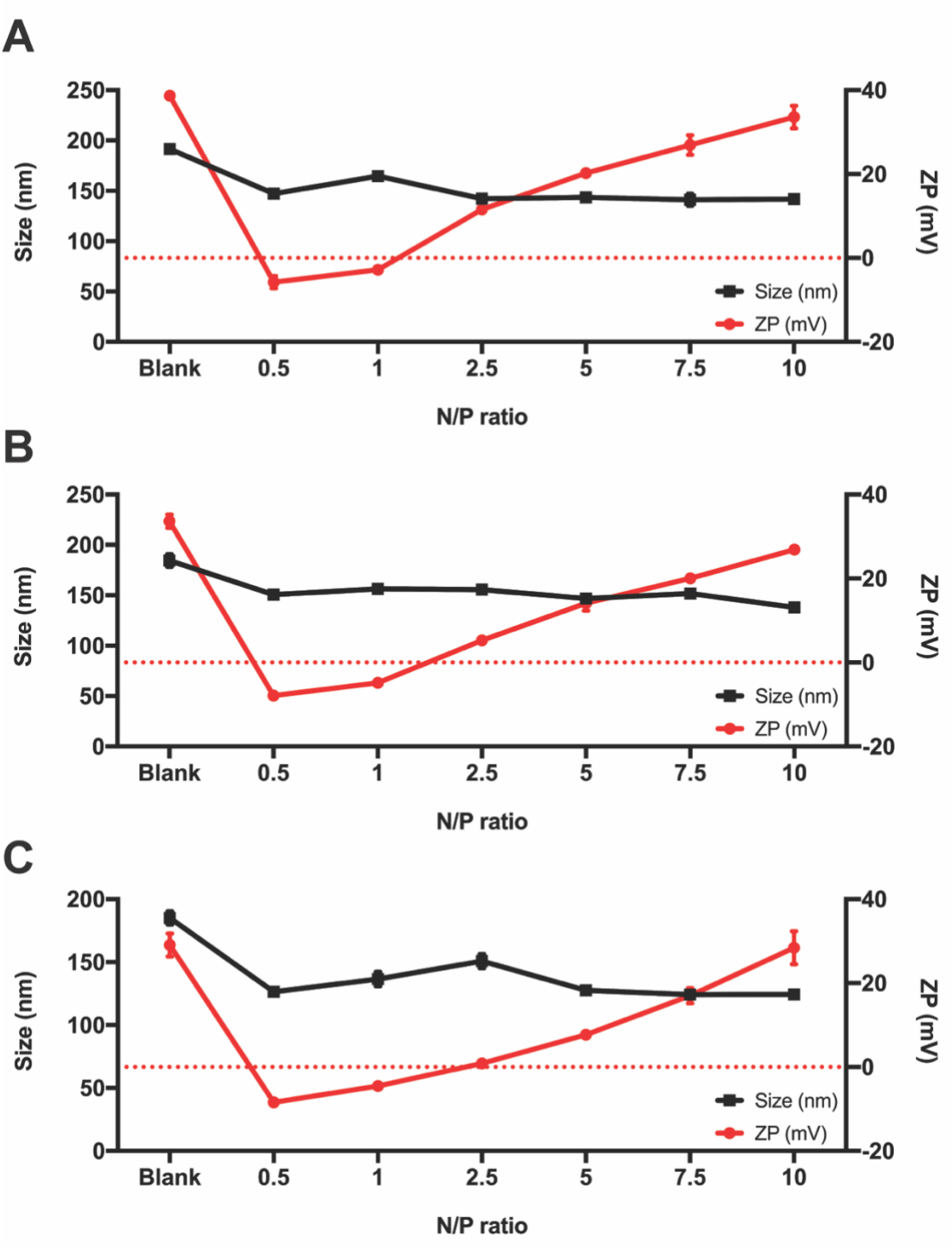

Fig. S2. The hydrodynamic sizes and zeta potentials. (A) FTS-PEI micelles (5% FTS, PEI MW = 25k Da) and pGFP/FTS-PEI nanocomplexes formed at various N/P ratios. **(B)** FTS-PEI micelles (1% FTS, PEI MW = 25k Da) and pGFP/FTS-PEI nanocomplexes formed at various N/P ratios. **(C)** FTS-PEI micelles (1% FTS, PEI MW = 2.5k Da) and pGFP/FTS-PEI nanocomplexes formed at various N/P ratios.

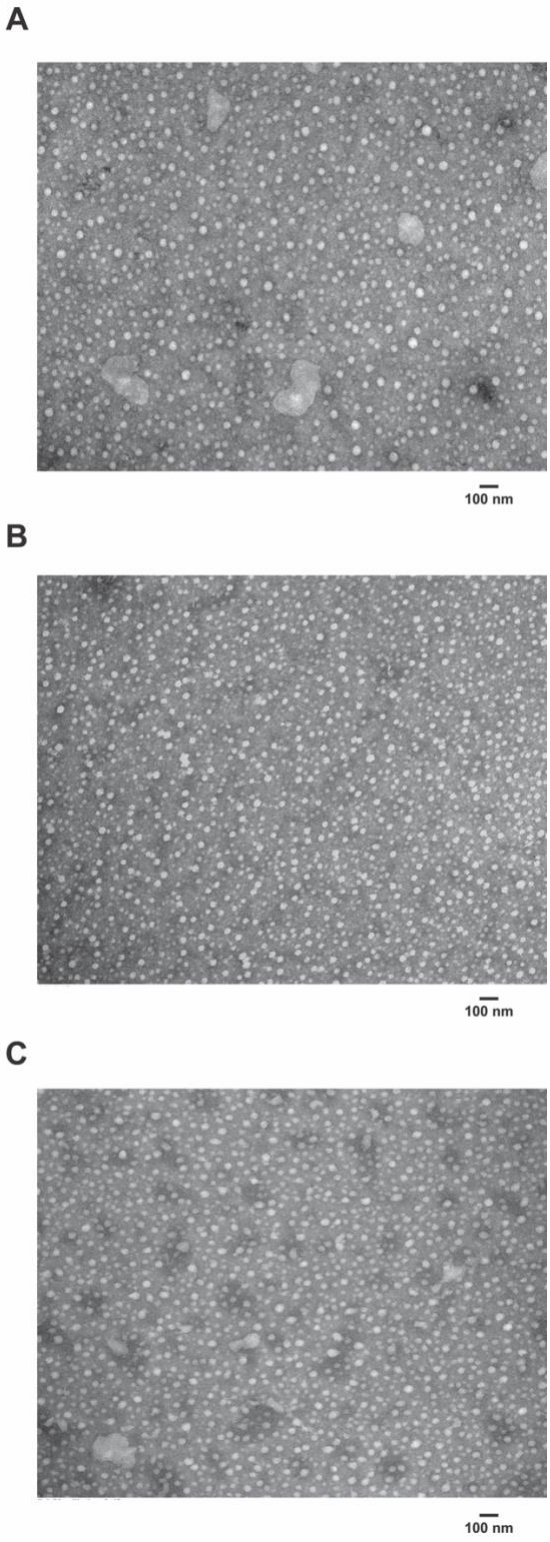

Fig. S3. Morphology of micelles and DNA/polymer nanocomplexes examined by TEM. Scale bar, 100 nm. **(A)** Blank FTS-PEI micelles (5% FTS, PEI MW = 2.5k Da). **(B)** pGFP/FTS-PEI nanocomplexes at a N/P ratio of 1/1. **(C)** pGFP/FTS-PEI nanocomplexes at a N/P ratio of 5/1.

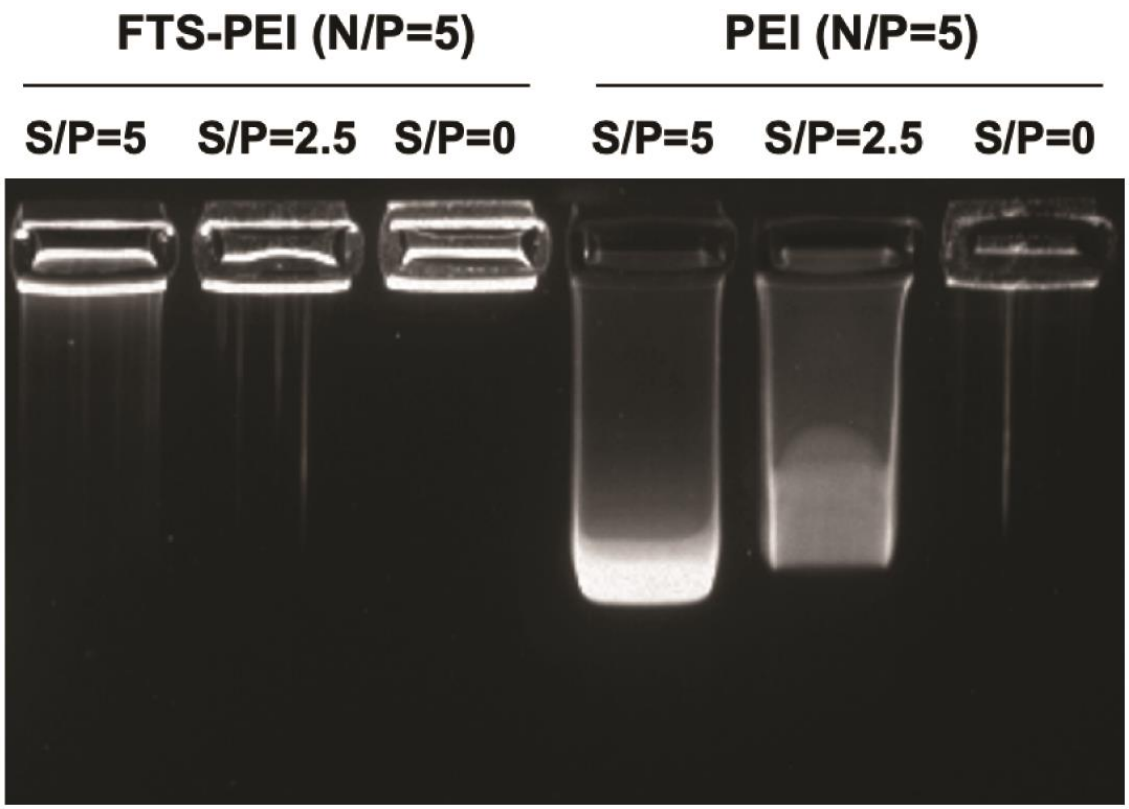

Fig. S4. Gel electrophoresis assay of DNA displacement from pGFP/FTS-PEI nanocomplexes (N/P = 5) by dextran sulphate at various S/P ratios.

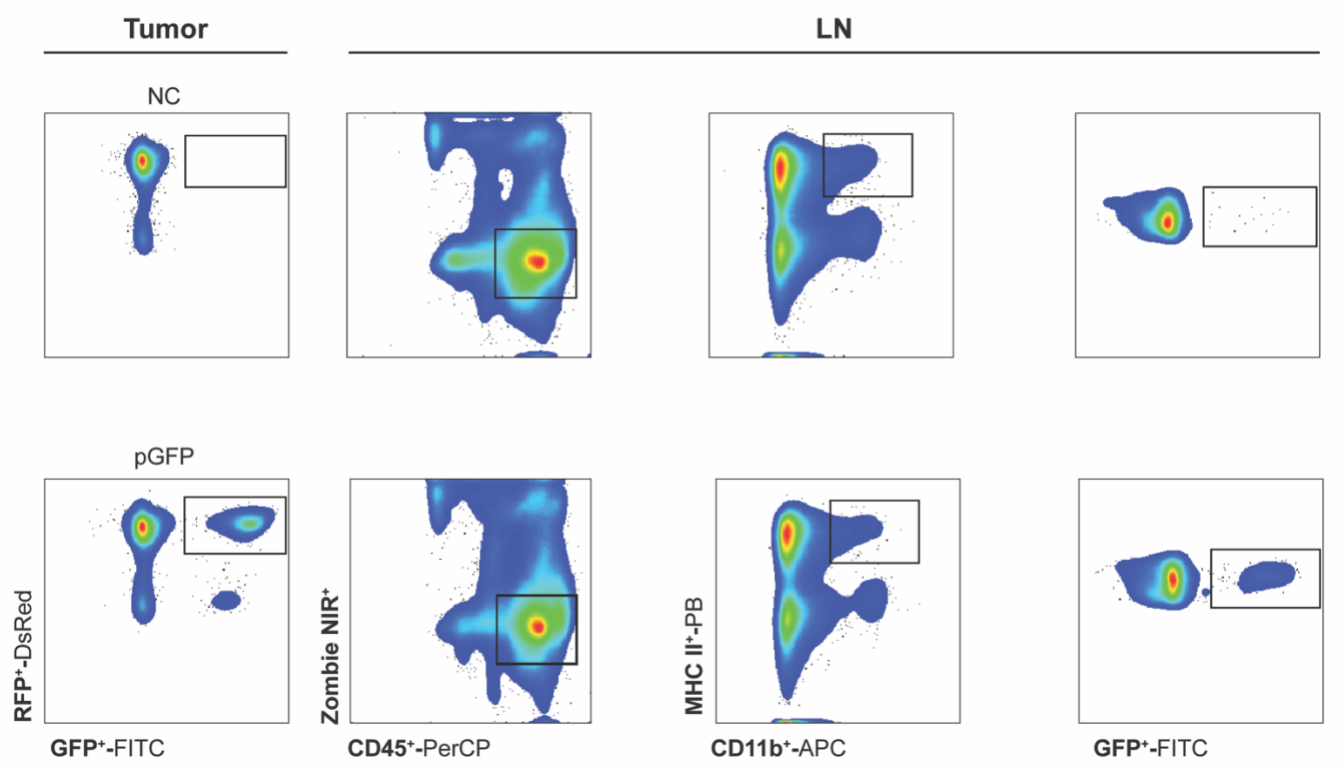

Fig. S5. Gating strategy of tumor cells and DCs. Tumor cells were first gated under Zombie NIR$^-$ & CD45$^-$ cell population and further characterized by tdTomato$^+$ expression. DCs were first gated under Zombie NIR$^-$ & CD45$^+$ cells as myeloid cell population and then further characterized by using Gr-1$^-$, CD11b$^+$ & MHCII$^+$ gating.