

Supplementary Material for:

Enhanced Uptake and Transport of PLGA-modified Nanoparticles in Cervical Cancer

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Table S1. Hydrodynamic sizes and zeta potentials measured for the various NP formulations.

Nanoparticle Type	Hydrodynamic Diameter (nm)	Zeta Potential (mV)
Unmodified	267.0 ± 13.6	-17.3 ± 0.5
MPG	232.6 ± 12.7	-0.4 ± 0.2
MPG/PEG	240.1 ± 49.4	-5.3 ± 0.7
PEG	239.5 ± 12.7	-5.2 ± 1.3
VIM	277.5 ± 46.8	-11.1 ± 1.0

Additional file Figures

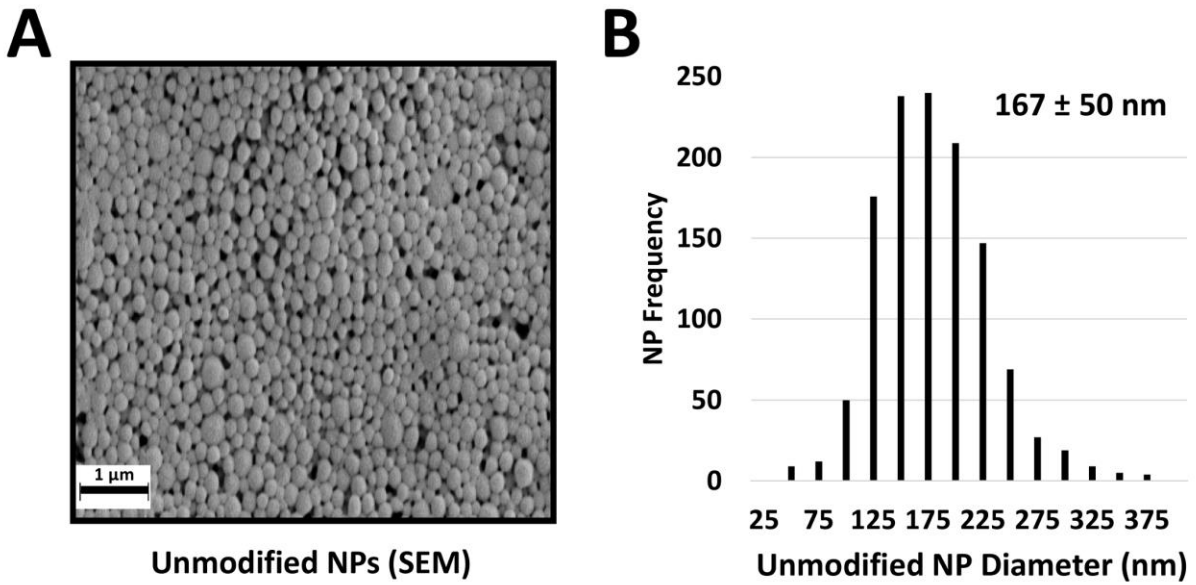


Figure S1. NP characterization. Representative scanning electron microscopy image of (A) unmodified NPs and (B) the corresponding size distribution.

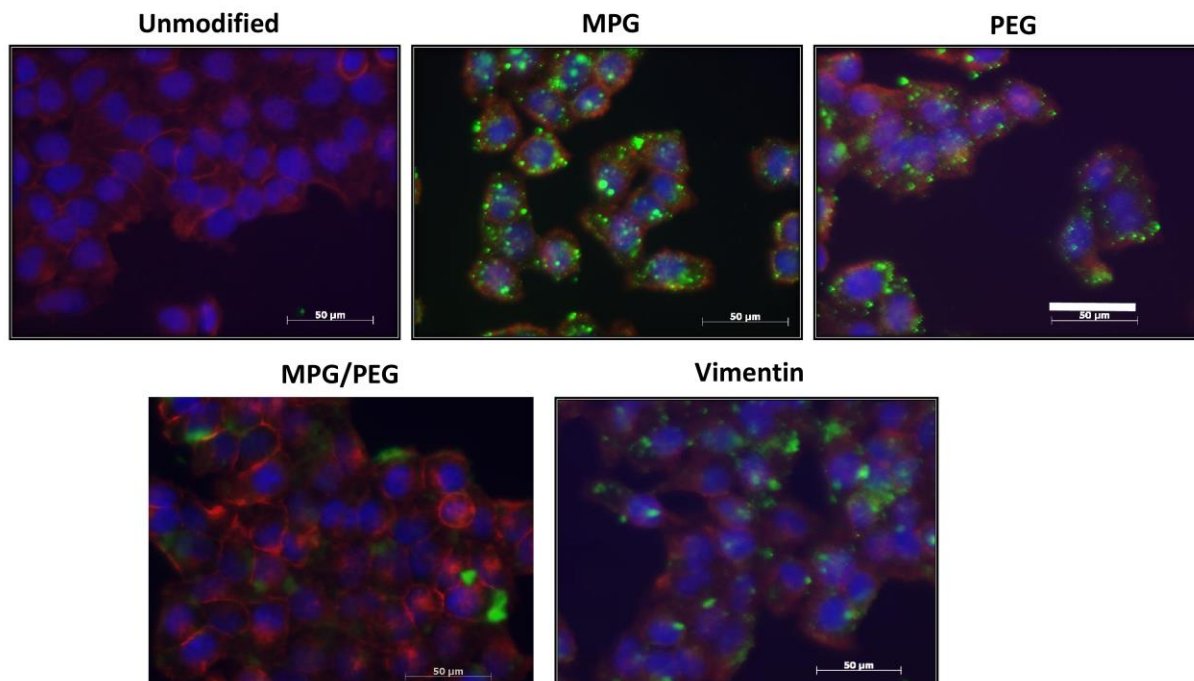


Figure S2. Total NP association (binding and internalization) in monolayers of HeLa cells after 1.5hr incubation. Nuclei are blue (Hoechst), actin cytoskeletons are red (Texas red phalloidin), and NPs are green (Coumarin 6). Bar = 50 μm.

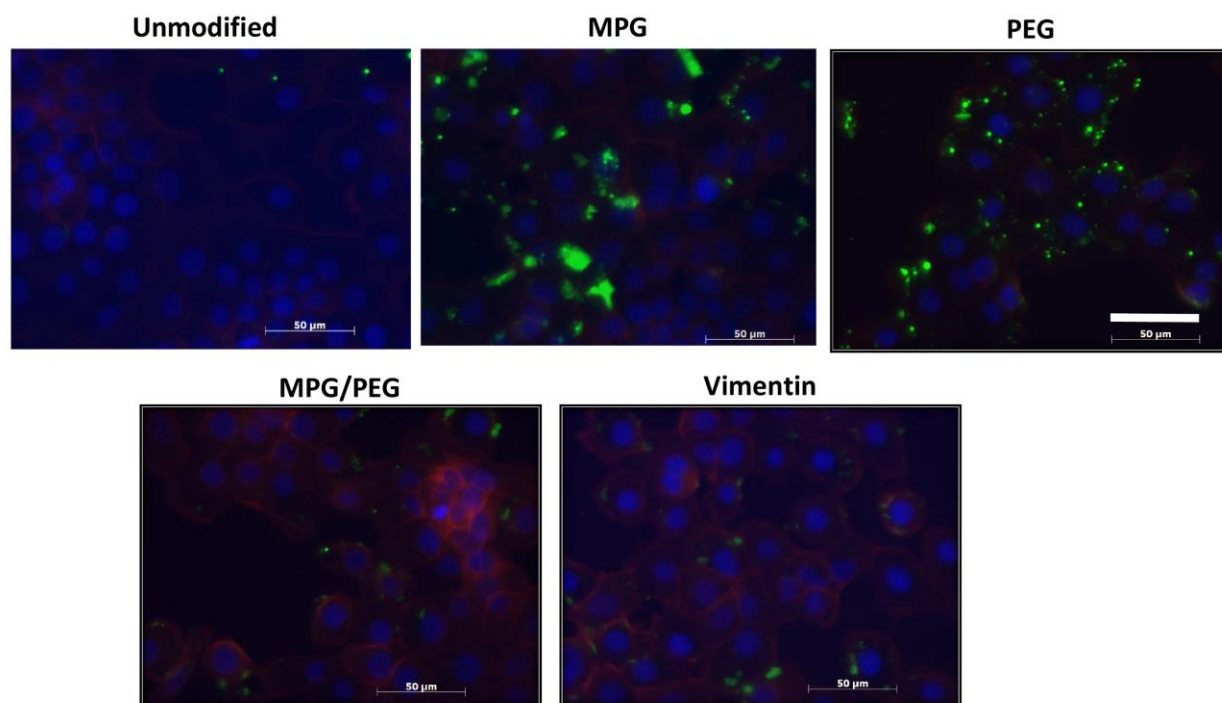


Figure S3. Total NP association (binding and internalization) in monolayers of VK2 cells after 1.5hr incubation. Nuclei are blue (Hoechst), actin cytoskeleton are red (Texas red phalloidin), and NPs are green (Coumarin 6). Bar = 50 μm.

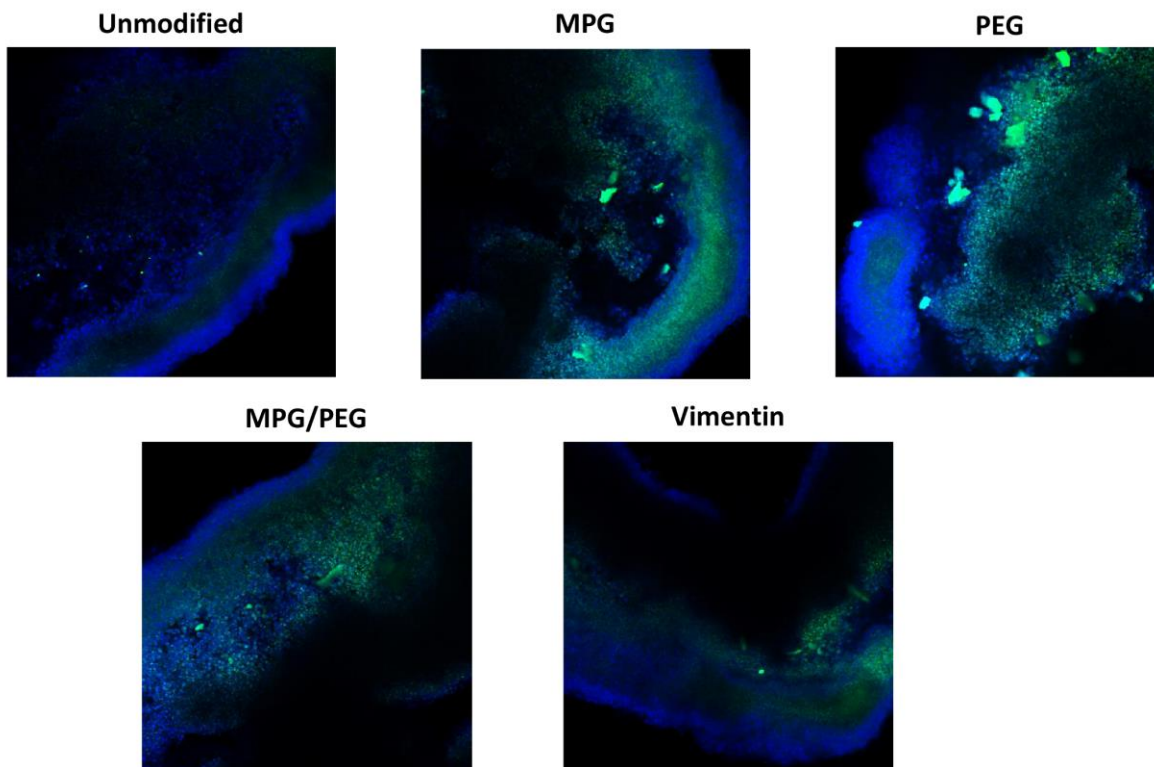


Figure S4. Total NP association (binding and internalization) in spheroids of HeLa cells after 1.5hr incubation. Nuclei are blue (Hoechst) and NPs are green (Coumarin 6). Spheroid periphery is highlighted by the brighter blue color, with the exterior showing in black. Magnification: 15x.