

Supporting Information

Tea Polyphenol-Engineered Cellular Nanovesicles for Cancer Immunotherapy and Androgen Deprivation Therapy

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Supplementary Figures

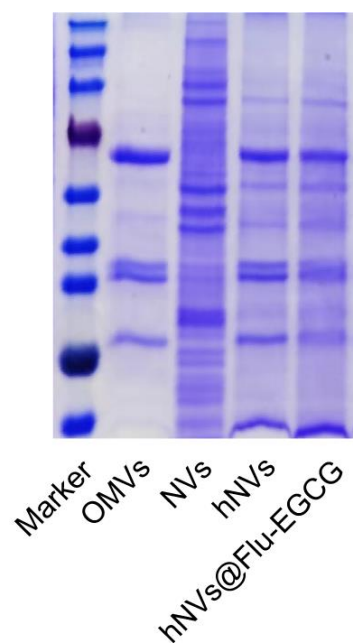


Fig. S1. SDS-PAGE analysis of OMVs, NVs, hNVs, and hNVs@Flu-EGCG.

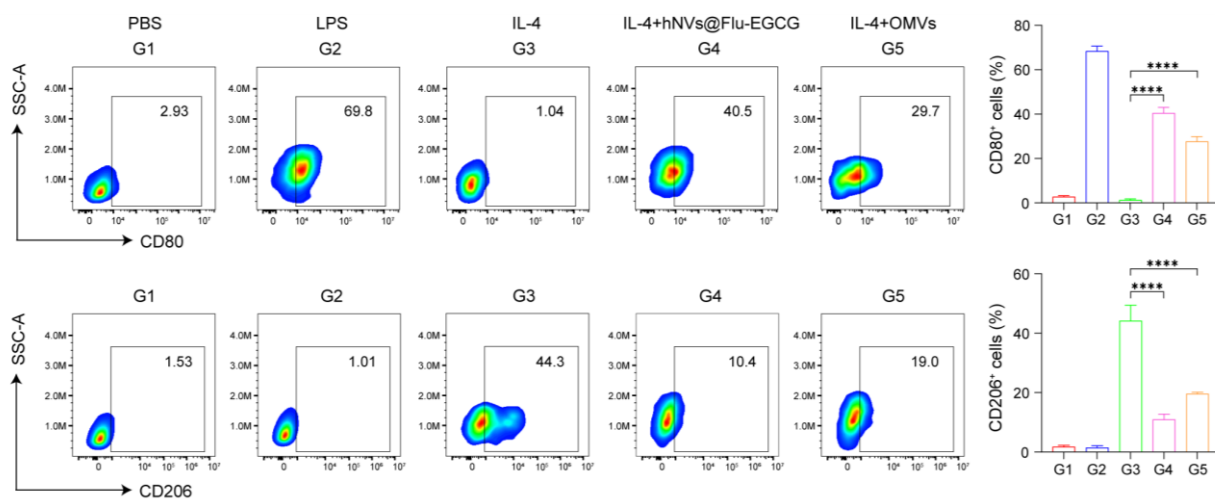


Fig. S2. The reprogramming capabilities of OMVs and hNVs@Flu-EGCG were analyzed by flow cytometry ($n = 3$).

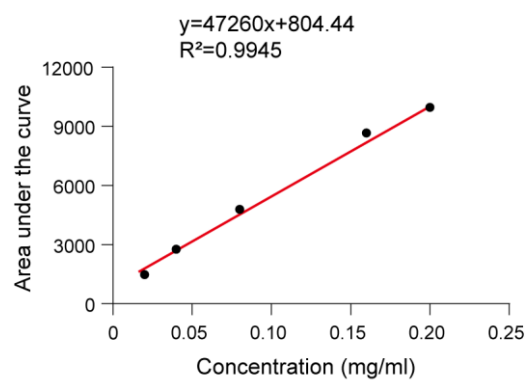


Fig. S3. The area under the curve of the chromatograms of free Flu was plotted against concentration to make a standard curve by HPLC.

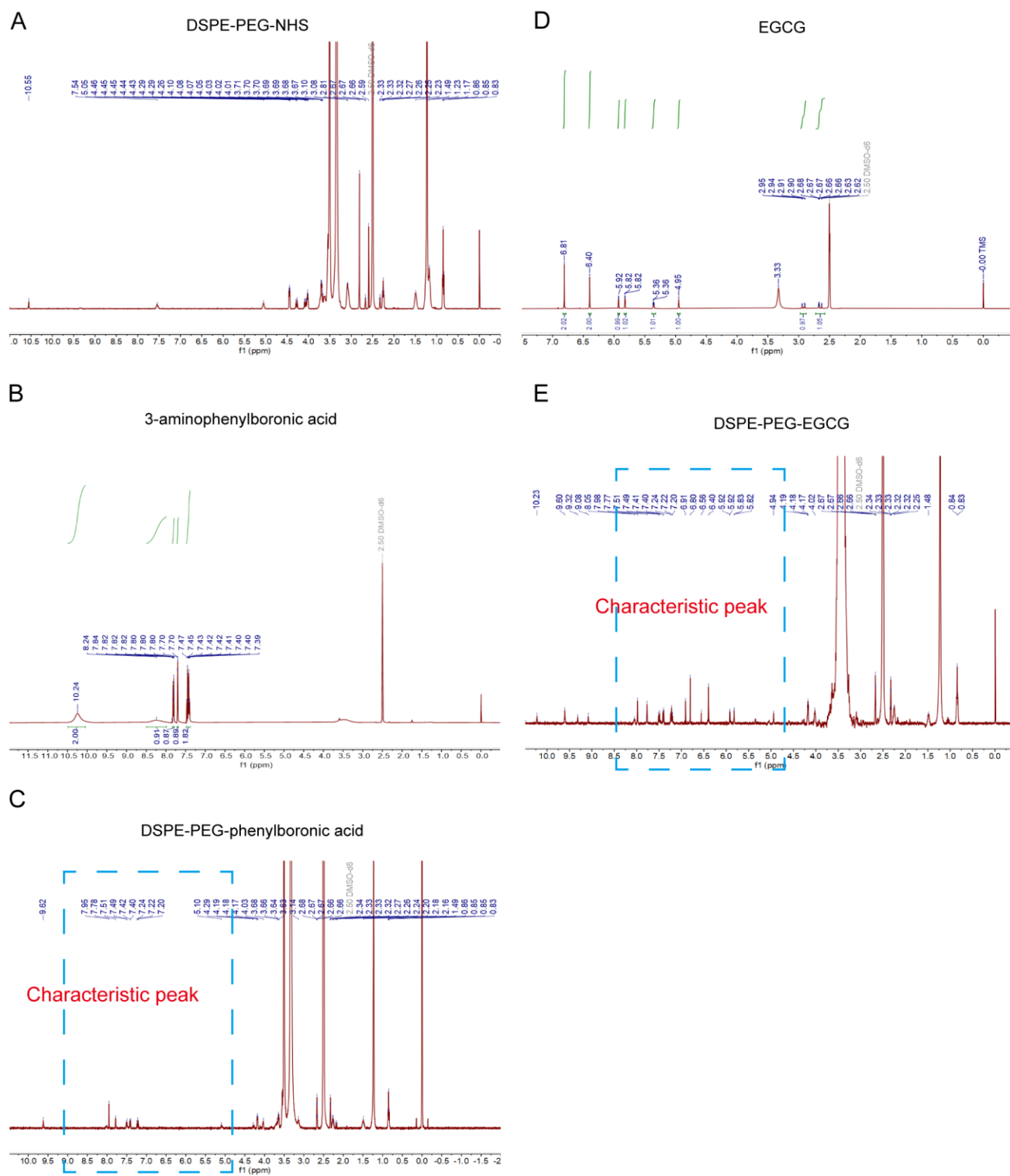


Fig. S4. The chemical components were characterized by Nuclear Magnetic Resonance (^1H NMR) spectrum. (A) DSPE-PEG-NHS, (B) 3-aminophenylboronic acid, (C) DSPE-PEG-phenylboronic acid, (D) EGCG, and (E) DSPE-PEG-EGCG.

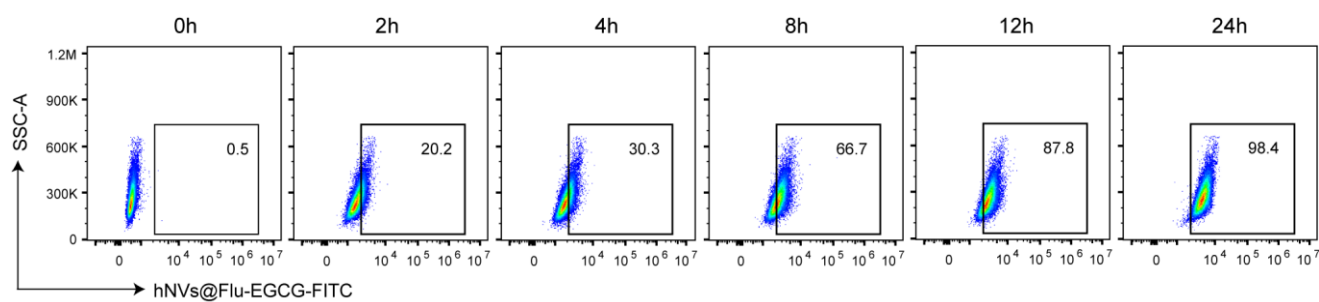


Fig. S5. Representative flow cytometric analysis images of the uptake ratio of hNVs@Flu-EGCG in RM-1 cells ($n = 3$).

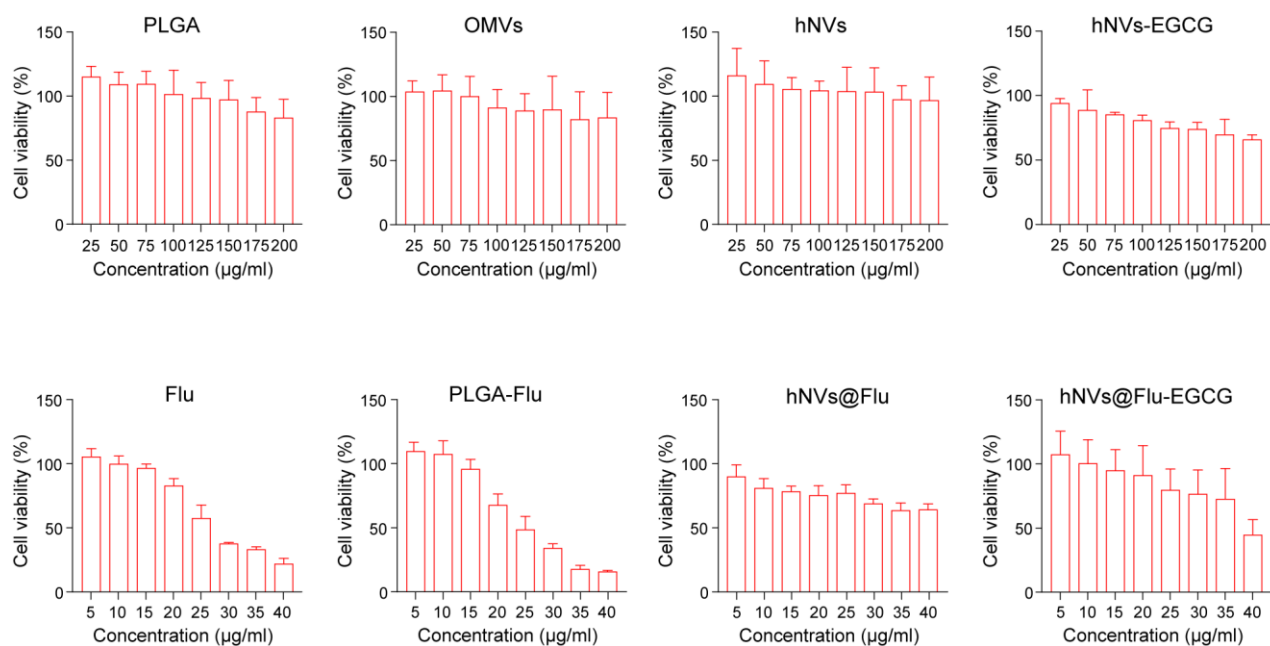


Fig. S6. CCK-8 results of RM-1 cells cultured with different components ($n = 5$).

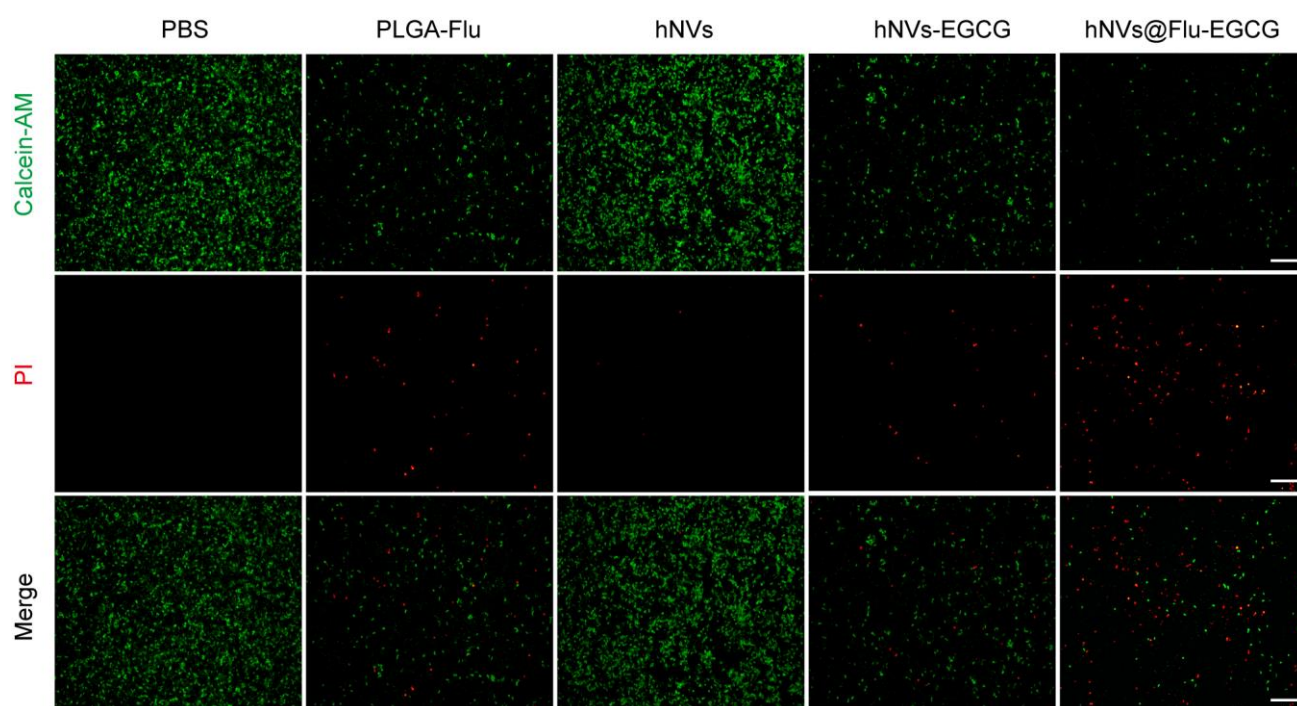


Fig. S7. The images of RM-1 cells costained with calcein-AM (green fluorescence) and PI (red fluorescence) after various treatments. Scale bar, 50 μ m.

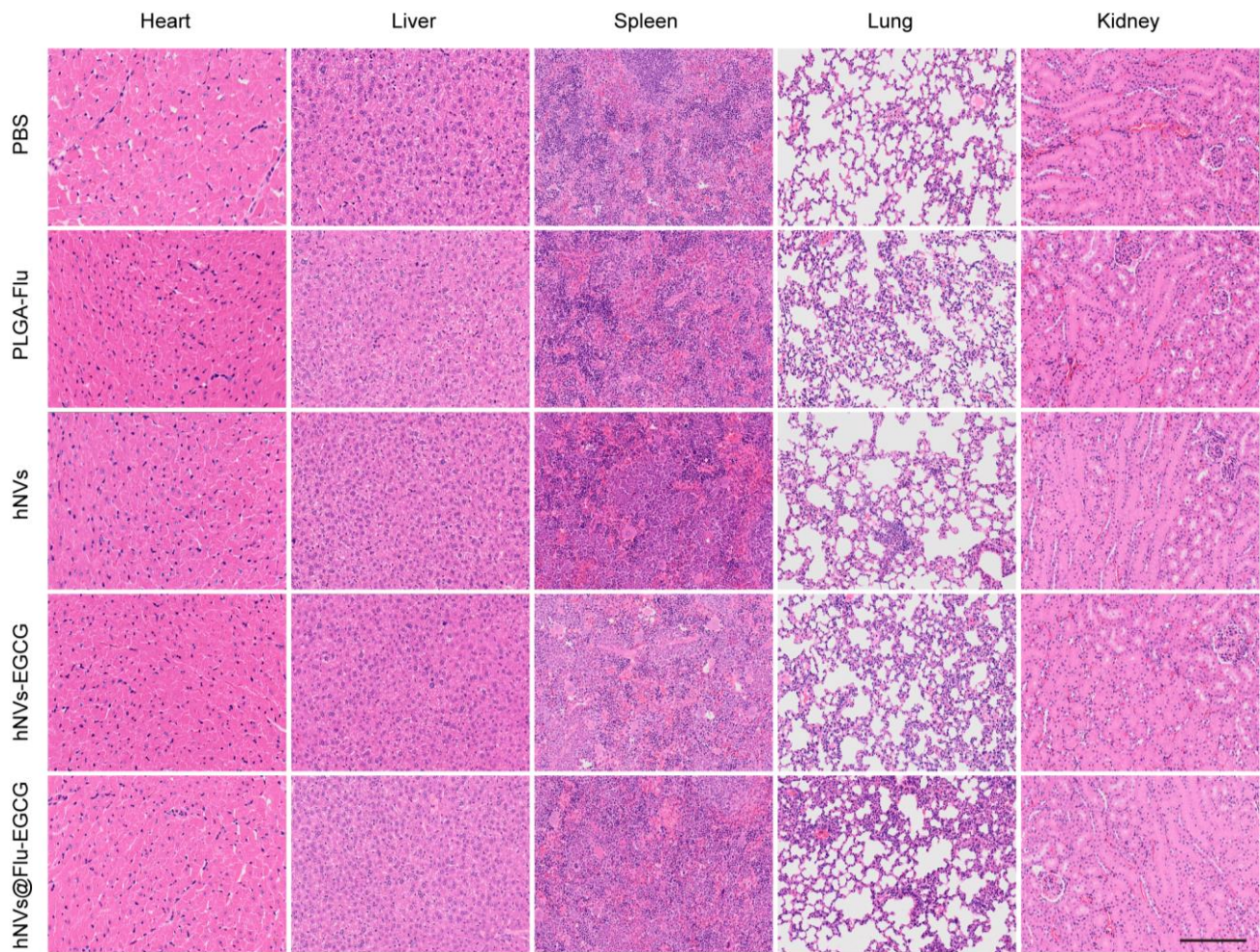


Fig. S8. Representative images of mice organ sections stained with H&E in different groups. Scale bar, 100 μ m. All data are expressed as mean $\pm$ S.D. ($n = 5$).

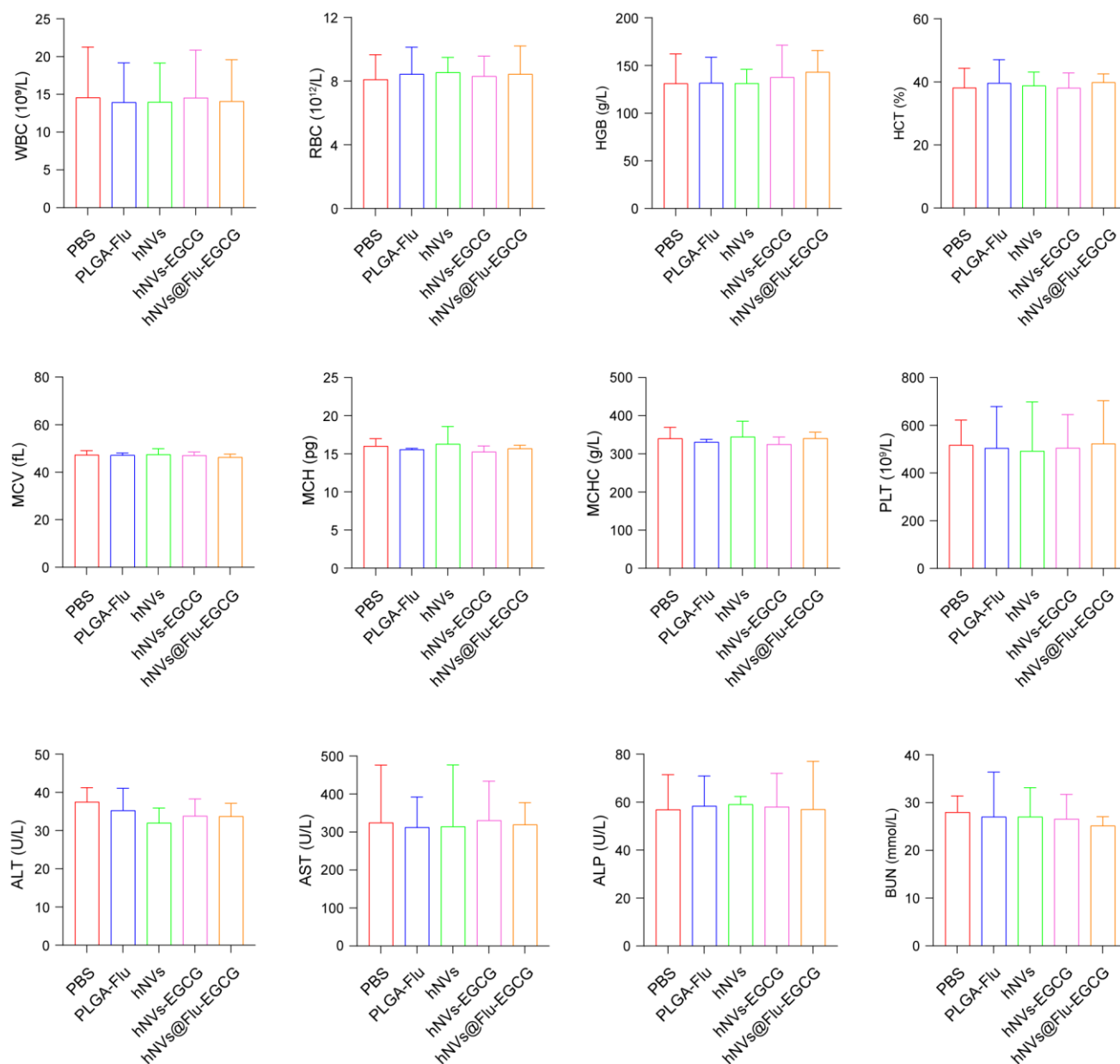


Fig. S9. The results of blood routine and blood biochemistry. WBC: white blood cell, RBC: red blood cell, HGB: hemoglobin, HCT: hematocrit, MCV: mean corpuscular volume, MCH: mean corpuscular hemoglobin, MCHC: mean corpuscular hemoglobin concentration, PLT: platelets, ALT: alanine transaminase, AST: aspartate aminotransferase, ALP: alkaline phosphatase, BUN: blood urea nitrogen.

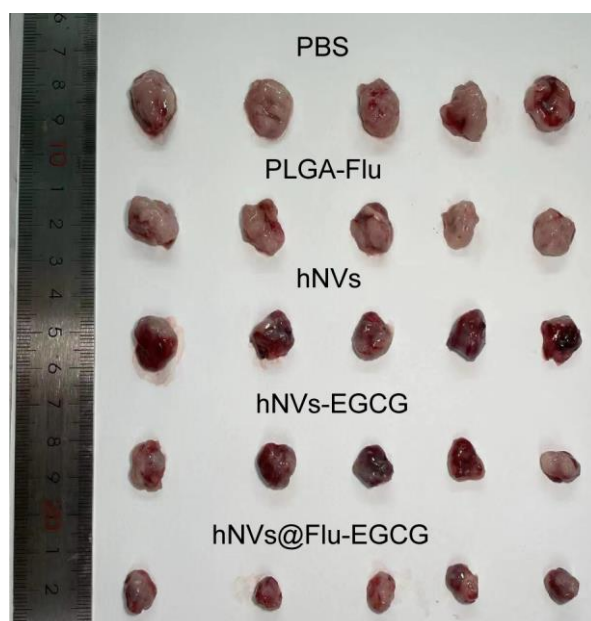


Fig. S10. Photographs of tumor in different groups after treatment ($n = 5$).

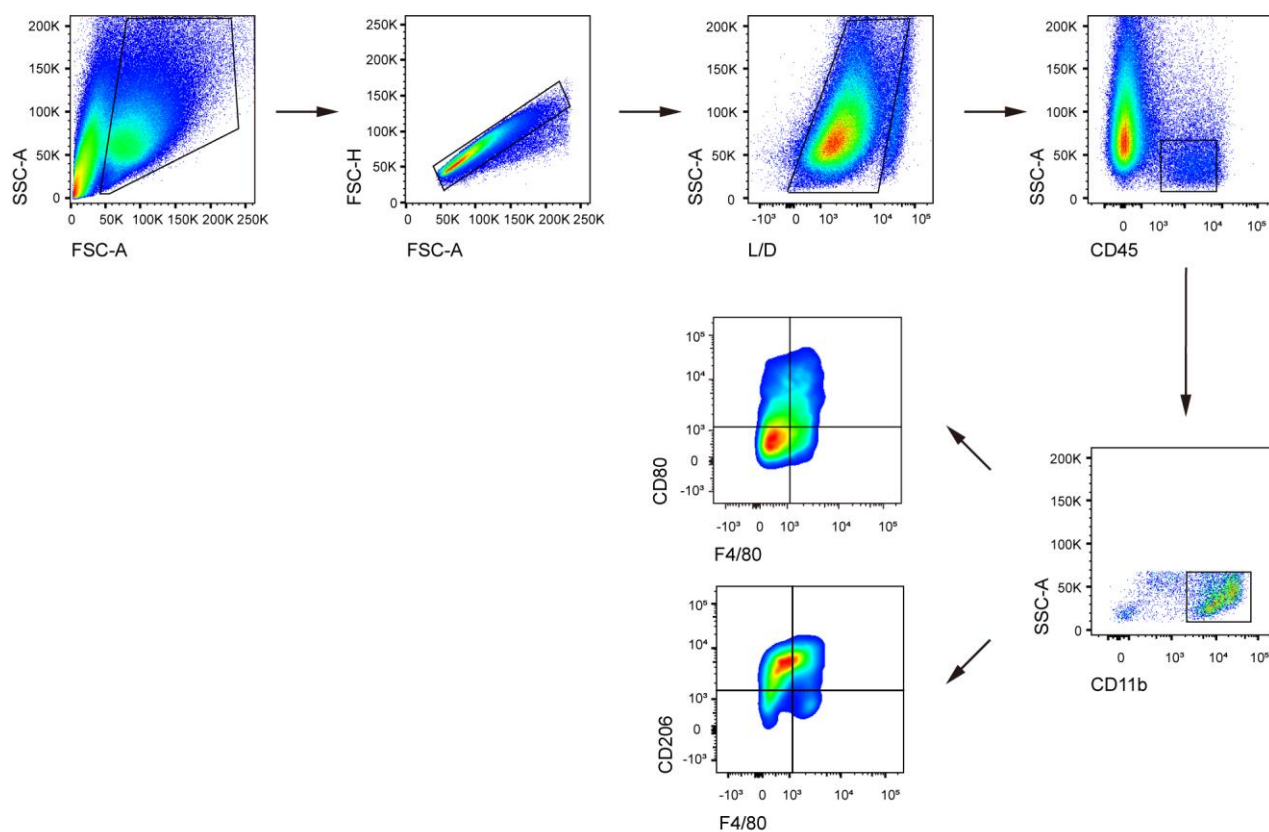


Fig. S11. Graphically account for flow cytometry gating strategy to sort CD206⁺F4/80⁺ M2-like and CD80⁺F4/80⁺ M1-like macrophages in tumor tissues gating on CD11b⁺CD45⁺ cells presented on Figure 6A.