

Supporting Information

Co-Delivery of Synaptogenic and Angiogenic Nanoparticles in MAP Scaffolds Enhances Post-Stroke Synapse Formation

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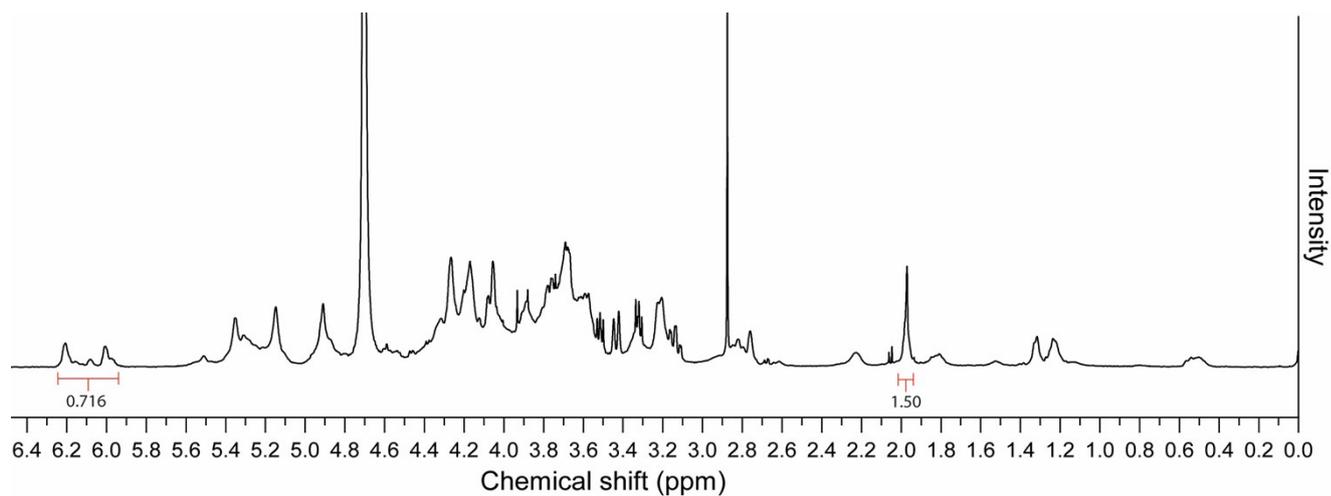


Figure S1 | ^1H NMR of norbornene-modified heparin. ^1H NMR spectrum of norbornene-modified heparin, showing characteristic norbornene alkene resonances at δ 6.0–6.3 ppm used to determine the degree of functionalization relative to the heparin N-acetyl methyl peak at δ 2.0 ppm, yielding an estimated 7.6% norbornene modification.

Immune Response

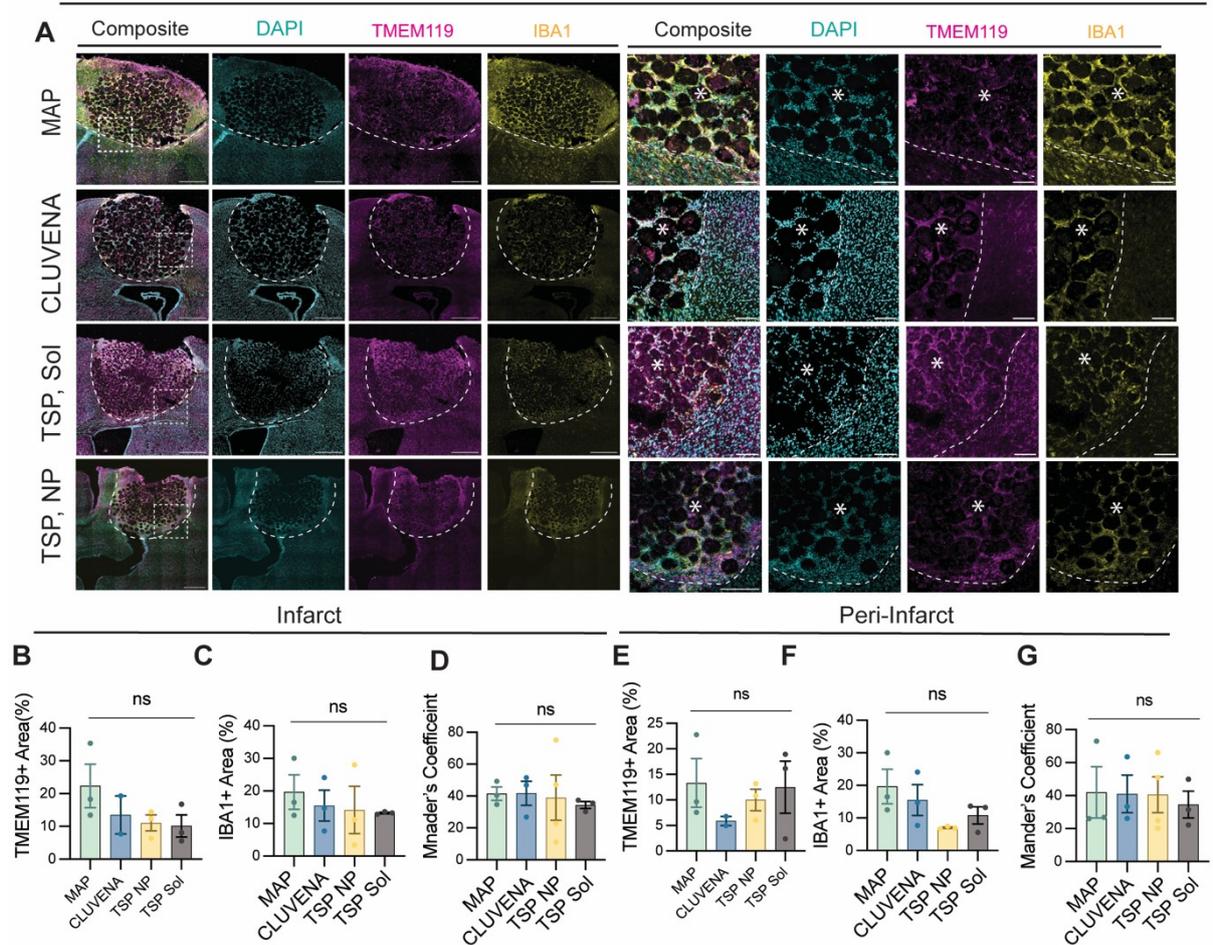


Figure S2 | TSP-1 Does not influence differences in immune cell populations. A) Representative images of infarct and surrounding tissues stained for microglial (TMEM119) in magenta, microglia-macrophage marker (IBA1) in yellow, and nuclei (DAPI) in cyan. Percent positive area of TMEM119 is shown in the B) infarct and E) peri-infarct. Percent positive area of IBA1 is shown in the C) infarct and F) peri-infarct. D) and G) shows the Mander's co-localization coefficients for TMEM119 colocalization with IBA1. Bars in depict the mean, and error bars represent SEM. Statistical comparisons were made using a one-way ANOVA with a Sidak post-hoc test. n=3

Progenitor Cells

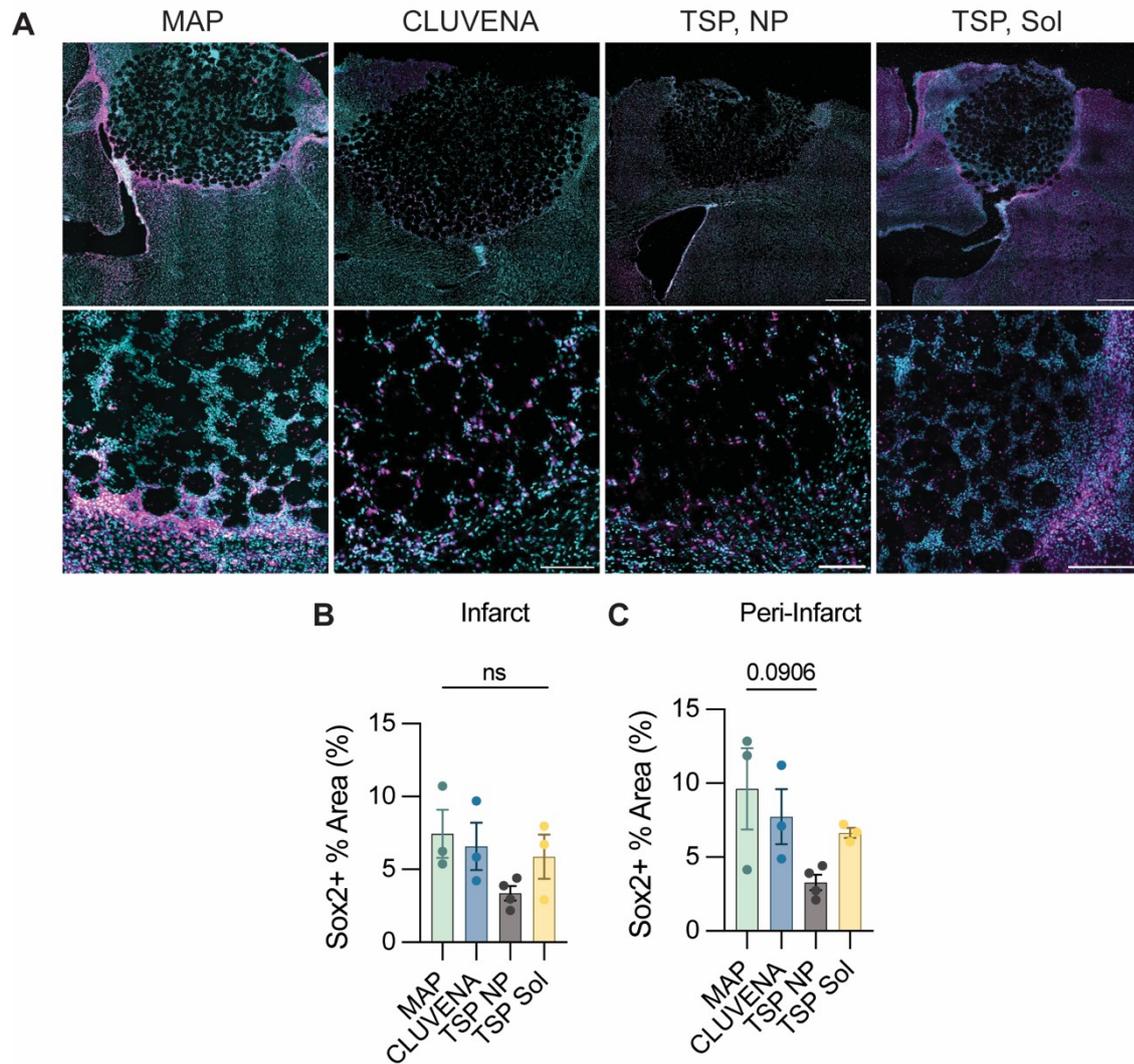


Figure S3 | TSP-1 Does not influence progenitor cell presence in the infarct. A) Representative images of infarct and surrounding tissues stained for progenitor cells (Sox2) in magenta nuclei (DAPI) in cyan. Sox2+ percent positive area is shown in the B) infarct and C) peri-infarct. Bars in depict the mean, and error bars represent SEM. Statistical comparisons were made using a one-way ANOVA with a Sidak post-hoc test. n=3-4.