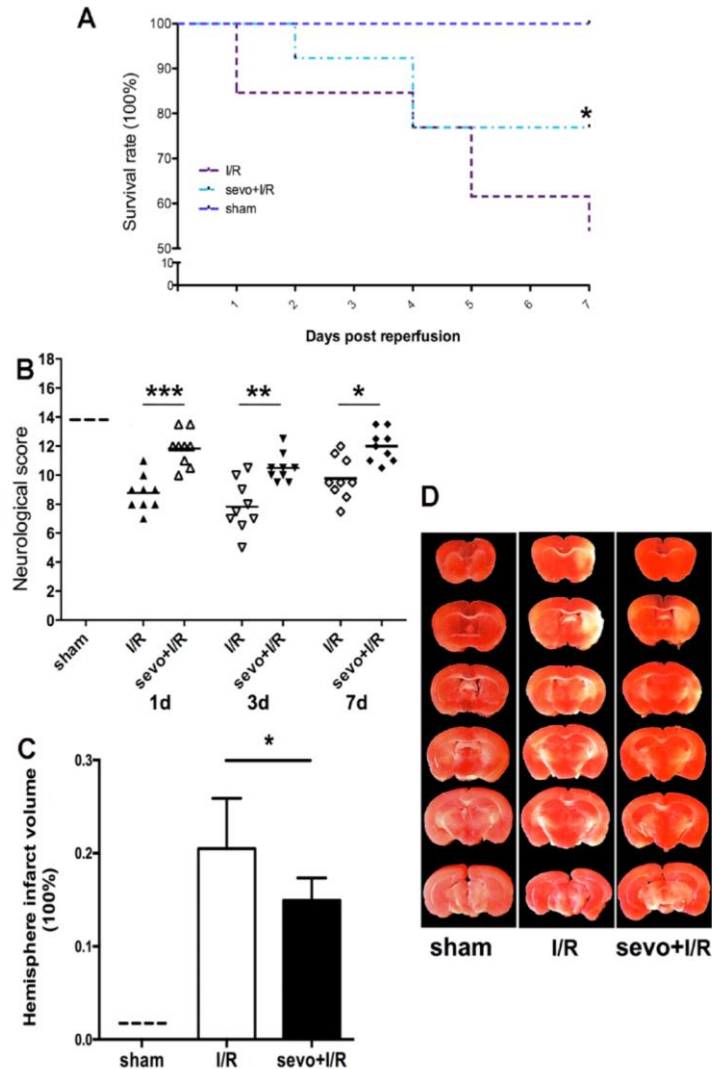**Supplemental Digital Content 3.** Neuroprotection of SPC against transient focal ischemia/reperfusion injury.

(A), Analysis for survival rate. Data were presented as survival percentage (n = 20 per group; * *P* < 0.05). *(B),* Comparisons of neurological manifestations between I/R and sevo+I/R groups at 1, 3 and 7 days after reperfusion. Data was represented as the median (interquartile rage). (n = 9 per group; ***, **, * *P* < 0.001, 0.01, 0.05). *(C),* Sevoflurane-preconditioned mice had smaller infarct volume percentages than I/R mice at 7 days after reperfusion. (n = 9 per group; * *P* < 0.05). *(D),* Representative

photographs of TTC-stained brain slices showing reduced infarct volume in SPC group. For neurological outcome evaluation, nonparametric statistics (Kruskal–Wallis test) with Bonferroni correction was confirmed. All data was expressed as mean ± SD. All One-way ANOVA with Tukey's *post hoc* test was used for other statistic analysis.

SPC = sevoflurane preconditioning；I/R = ischemia/reperfusion.