



**Supplemental Figure S1.** Depletion of astrocyte somatic markers in post-ischemic microvessel isolates. (A) Protein lysates from the post-ischemic brain hemisphere or mechanically isolated microvessels were blotted for the astrocytic transcription factor SOX9 and the loading control  $\alpha$ -tubulin. (B) Protein lysates from mechanically isolated post-ischemic microvessels or magnetically sorted ACSA2+ astrocyte endfeet were blotted for a nuclear pore complex (NPC) protein NUP153 and the loading control  $\alpha$ -tubulin.