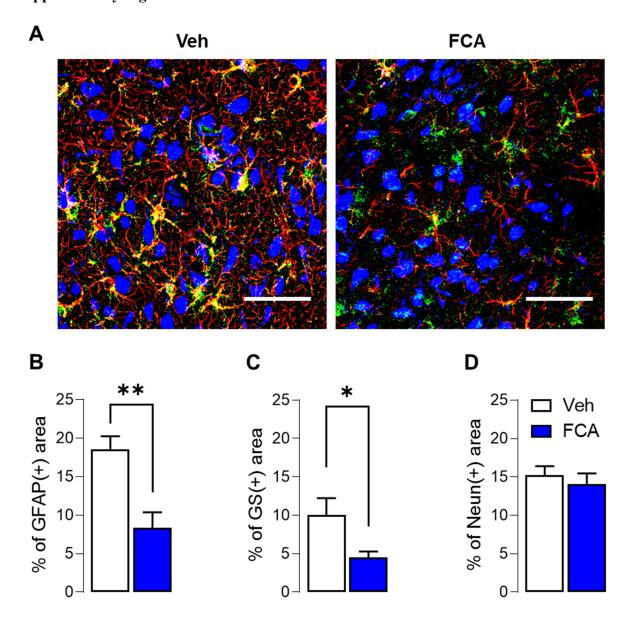


Supplementary Material

1. Methods

For general information about immunohistochemical procedures refer to section 2.5 in main text. Primary antibodies used: Chicken-anti-GFAP (Novus NBP1-05198, 1:1000); Rabbit-anti-GS (GeneTex, #GTX109121) (1:250); Guinea Pig-Anti-NeuN (Millipore) ABN90, 1:1000); Secondary antibodies used (1:1000): Goat-anti-Chicken Alexa488 (A11039); Goat-anti-Guinea Pig Alexa 647 (A21450), Goat-anti-Rabbit Alexa-568 (A11011). Sections were imaged at identical conditions on confocal microscope (Olympus FV3000), using 3×3 mosaic, Z=6 taken with $60\times$ oil immersion objective, in three channels: GFAP, GS and NeuN. Image analysis was performed with ImageJ software (ImageJ v1.53f51, NIH) as described in the methods (see 2.5).



Supplementary Figure 1. FCA-induced specific astrocytic signaling reduction in CeA. (A) Representative images of GFAP(+) (red), GS(+) (green) and NeuN(+) (blue) staining in CeL area from Veh (left) and FCA (right) injected neuropathic rats. Scale bar = 50 μ m. Immunohistochemical analysis showed decreased GFAP(+) (B) and GS(+) (C), but not NeuN(+) (D), signal in the CeL of FCA-treated animals compared to the control (Veh) group, suggesting that FCA-related effects were specific to astrocytes. Bar histograms show mean \pm SEM. *, ** p < 0.05, 0.01 compared to vehicle, unpaired student t-tests. (B) p < 0.01, t = 3.925; (C) p < 0.05, t = 2.378; (D) p = 0.5386, t = 0.6424; vehicle, n = 5; FCA, n = 5 animals. GFAP = Glial fibrillary acidic protein; GS = Glutamine Synthetase; NeuN = Neuronal Nuclear Antigen.