control mice (see fig. 4B-B1). **H**, Quantitative analysis of $GFP^+/GAFP^+$ cells expressing S100B. At least 400 $GFP^+/GFAP^+$ cells were counted and n the number of transplanted mice. Errors are ± SD. Scale bars: 50 µm in G and 20 µm in G1.

Figure 7. Model of $GFAP^+$ astrocytic development. The onset of GFAP expression in parallel with the progressive down-regulation of RC2 characterizes the stage I and the stage II respectively. Next, $GFAP^+$ astrocytes continue their developmental program and the onset of S100B expression defines the stage III. This stage includes restricted astrocyte precursors and terminally differentiated astrocytes. EGF signaling exerts a double effect on $GFAP^+$ astrocytic development. It activates the transition from stage I to the stage II and blocks the transition from stage II to stage III.

Supplemental figures

Supplemental figure 1. At P2, S100B is expressed by oligodendroglial cells. P2 coronal sections were double immunolabeled as indicated in the figure. Cells expressing S100B in neocortex at P2 mostly express the proteoglycan NG2 (98±1%, n=2 mice, 141 counted cells), PDGFR-α (97±2%, n=2, 158 counted cells) and Olig2 (81±5%, n=2, 185 counted cells) and likely correspond to oligodendroglial cells. Arrowheads point to double-labeled cells. Arrows point to $NG2^+$ (A), PDGFR-α^+ (B) and $Olig2^+$ (C) cells which do not express S100B. Images result from the superposition of 10 confocal -y focal sections. Scale bar: 50 µm in A, 20 µm in B and C.

Supplemental figure 5. Transplanted astrocytic cells integrate the host brain. A-B, 15 DIV astrocytic cultures derived from transgenic α-actin GFP-mice were dissociated and cells were injected into the striatum of C57/BL6 host mice. After 4 weeks, grafted astrocytes extended thin process (arrowheads) and developed astrocyte end-feet (arrows) around blood vessels (asterisks in A1 and B1). A1 and B1 are higher power views of the areas squared in A and B respectively. Nuclear counterstaining was performed with To-pro 3. Scale bar: 10 µm .