

Table S1***fraction (%) of all *Enpp6*⁺ cells that are also:***

| | Olig2⁺ | Sox10⁺ | Pdgfra⁺ | CC1⁺ | <i>Mbp</i>⁺ “spidery” |
|-----------------|--------------------------|--------------------------|---------------------------|------------------------|---|
| motor cortex | 100 | 97.3 ± 1.8 | 0 | 98.2 ± 1.8 | 99.4 ± 0.6 |
| sub-cortical WM | 100 | 95.6 ± 2.1 | 0 | 86.9 ± 3.8 | NA |

Supplementary Table 1**Characterization of *Enpp6*⁺ cells in mouse brain sections.**

Cells were counted in sections of mouse forebrain that were subjected to ISH for *Enpp6* followed by immunolabeling for Olig2 or Sox10 (for all oligodendrocyte lineage cells), CC1 (for mature or maturing oligodendrocytes) or by ISH for *Pdgfra* (OPs) (Supplementary Fig. 3). Data from at least 3 sections from each of 3 mice (>1000 cells counted in total). Means ± s.e.m.