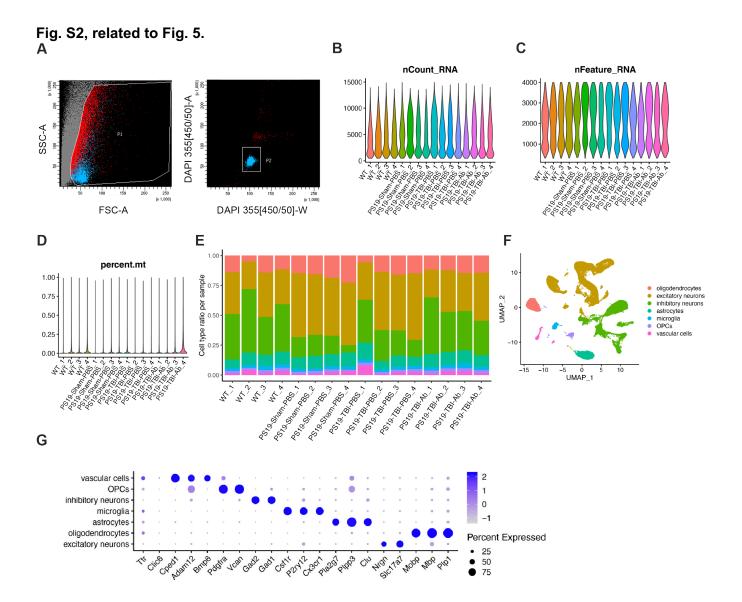
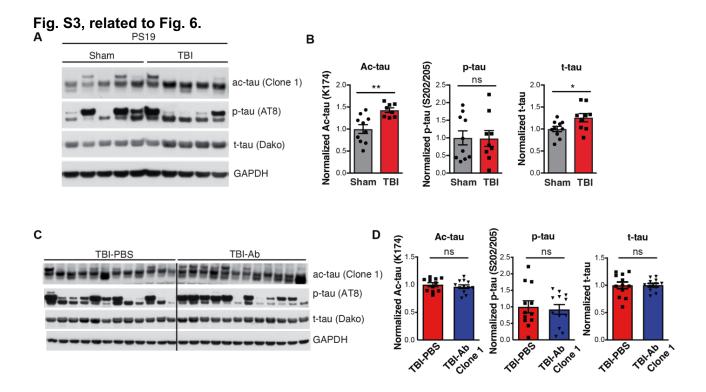


Fig. S1, related to Fig. 2.

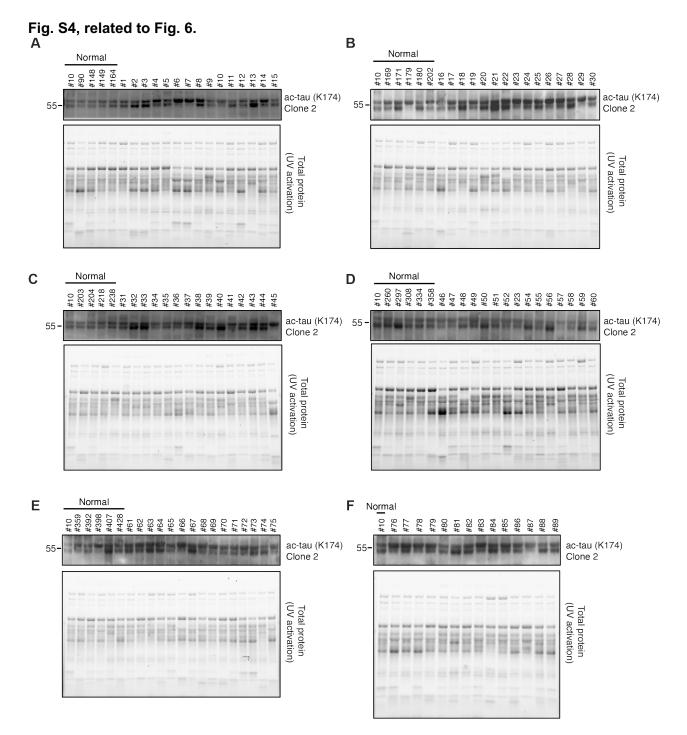
(A) Swim speed in the Morris Water Maze (MWM) 72 hr probe trial. ns, not significant, by oneway ANOVA, Tukey's multiple comparison test. (B) Average latency to fall in the wire hang assay. ns, not significant by one-way ANOVA, Tukey's multiple comparison test. (C) Body weight of mice at the wire hang assay. ***p<0.001, by two-way ANOVA, Tukey's multiple comparison test. (D) Average body weight of three groups of animals throughout the course (15 weeks) of the experiment. WT-PBS: n=12, PS19-PBS: n=14, PS19-Ab: n=14. Error bars: SEM. The dip at week 12 was due to MWM. (E) Average latency to fall in the last trial of the rotarod assay by day. *p<0.05, by two-way ANOVA, Tukey's multiple comparison test. (F) Average total movement, center movement, and periphery movement in the open field assay. ns, not significant, *p<0.05, by one-way ANOVA, Tukey's multiple comparison test.



(A) FACS gating strategy for sorting singlet, DAPI-stained nuclei. (B-D) Violin plots showing spread of total genes (B), total features (C), and percent of mitochondrial genes (D) detected per nuclei for each individual sample. (E) Proportion of cell types for each individual sample. (F) UMAP plot of all single nuclei and their annotated cell types. OPCs: Oligodendrocyte progenitor cells. (G) Percentage and average expression levels of maker genes for indicated cell types.



(A) Representative immunoblot of acetylated tau (Clone 1), p-tau (AT8), total tau (t-tau, Dako) and GAPDH in cortex lysate of PS19 mice subjected to TBI and sham surgery. (B) Quantification of levels of ac-tau, p-tau, t-tau relative to GAPDH and normalized to sham group. n=10 (sham), n=9 (TBI). *p<0.05, **p<0.01, by unpaired t-test. (C) Representative immunoblot of acetylated tau (Clone 1), p-tau (AT8), total tau (t-tau, Dako) and GAPDH in cortex lysate of PS19 mice subjected to TBI and treated with PBS or Clone 1 Ab. (D) Quantification of levels of ac-tau, p-tau, t-tau relative to GAPDH and normalized to TBI-PBS group. n=12 per group. ns, not significant, by unpaired t-test.



(A-F) Immunoblots of acetylated tau (K174) (Clone 2) in control (Normal) and TBI human plasma samples: (A) TBI #1-15, (B) TBI #16-30, (C) TBI #31-45, (D) TBI #46-60, (E) TBI #61-75, (F) TBI #76-89.