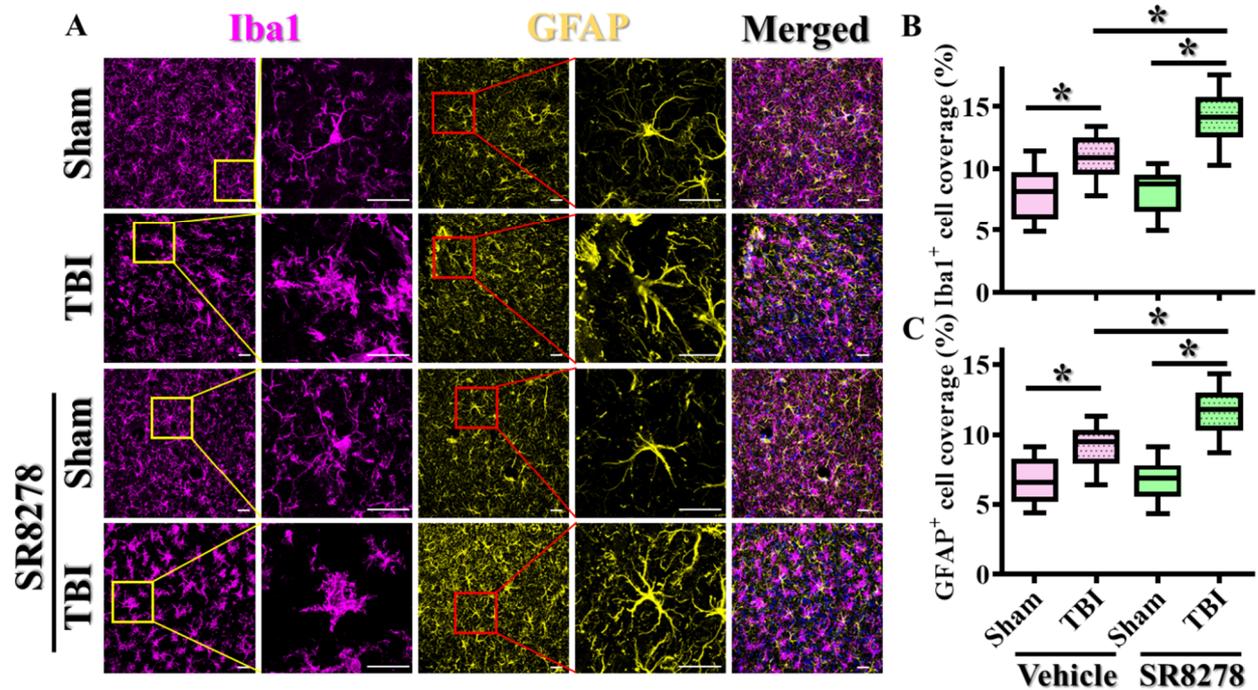
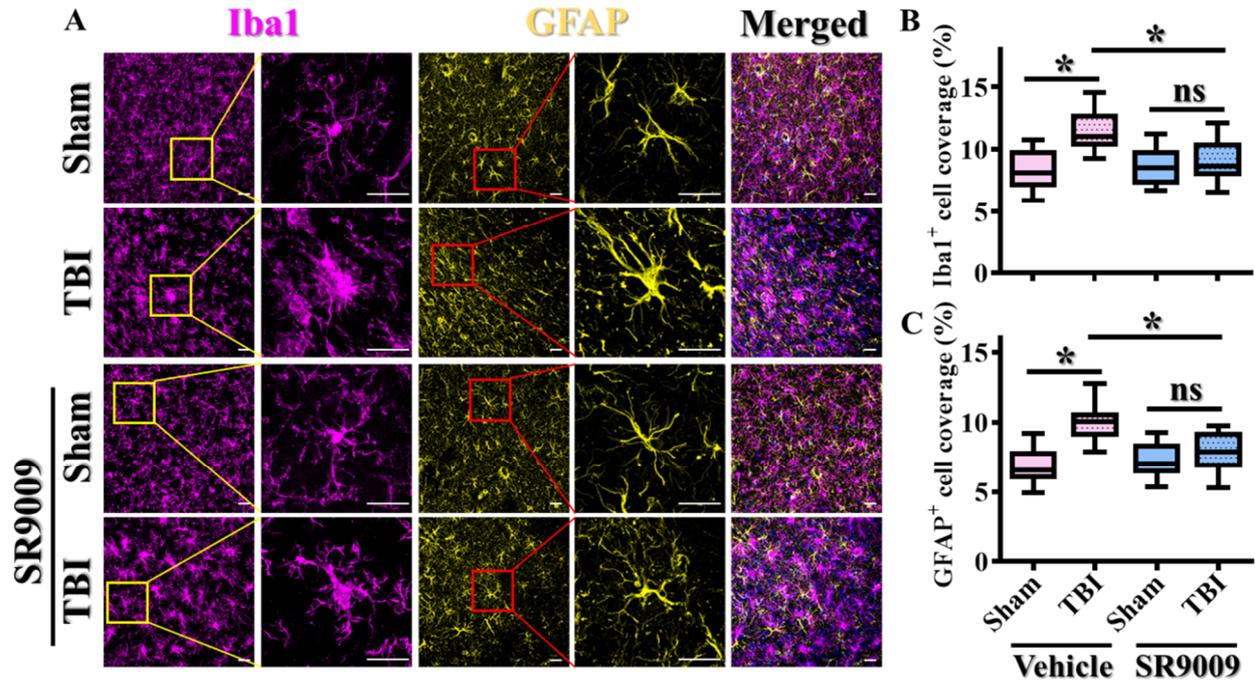


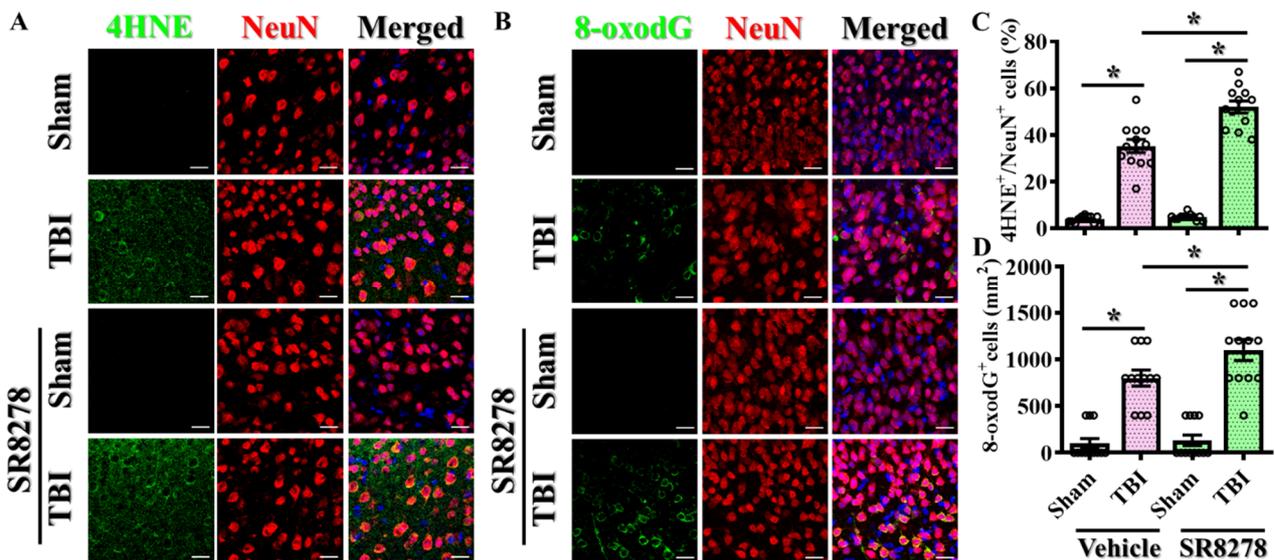
**Figure S1. Impact of either Rev-erba antagonist or agonist on the expression levels of different circadian genes.** (A) Quantification of the fold changes in the gene expression levels of *Nr1D1* between different experimental groups. (B) Quantification of the fold changes in the gene expression levels of *Bmal1* between different experimental groups. (C) Quantification of the fold changes in the gene expression levels of *Per1* between different experimental groups.  $n = 5$  mice. All the results were presented as mean  $\pm$  SEM and analyzed by a one-way ANOVA followed by Bonferroni's post hoc analysis. \*  $p < 0.05$ ; ns represents not significant.



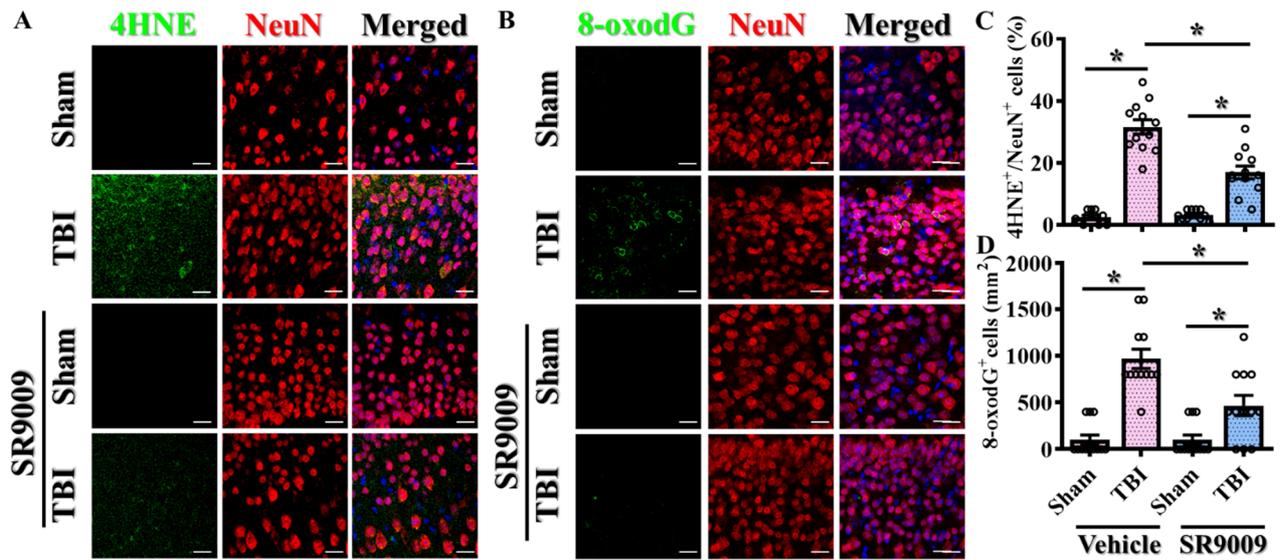
**Figure S2. Exaggeration of TBI-induced activation of microglia and astrocytes in the prefrontal cortex by SR8278.** (A) Representative images showing the IBA1-positive microglial cells (magenta) with the GFAP-positive astrocytes (yellow) from different experimental groups. DAPI (blue) is used for the nuclear stain (scale = 20  $\mu$ m). (B) Quantitative analyses of the percentage in the area of IBA1-positive cells coverage between different experimental groups.  $n = 10$  images from 4 mice. (C) Quantitative analyses of the percentage in the area of GFAP-positive cells coverage between different experimental groups.  $n = 10$  images from 4 mice. Data were presented as mean  $\pm$  SEM and then analyzed by the one-way ANOVA test followed by Bonferroni's post hoc analysis. \*  $p < 0.05$ .



**Figure S3. Amelioration of TBI-induced activation of microglia and astrocytes in the prefrontal cortex by SR9009.** (A) Representative images showing the IBA1-positive microglial cells (magenta) with the GFAP-positive astrocytes (yellow) from different experimental groups. DAPI (blue) is used for the nuclear stain (scale = 20  $\mu$ m). (B) Quantitative analyses of the percentage in the area of IBA1-positive cells coverage between different experimental groups.  $n = 10$  images from 4 mice. (C) Quantitative analyses of the percentage in the area of GFAP-positive cells coverage between different experimental groups.  $n = 10$  images from 4 mice. Data were presented as mean  $\pm$  SEM and then analyzed by the one-way ANOVA test followed by Bonferroni's post hoc analysis. \*  $p < 0.05$ .



**Figure S4. Exaggeration of TBI-induced excessive oxidative stress in the prefrontal cortex by SR8278.** (A) Representative images showing the 4HNE-positive (green) neurons (NeuN, red) in the prefrontal cortex from different experimental groups. DAPI (blue) is used for the nuclear stain (scale = 20  $\mu$ m). (B) Representative images showing the 8-oxo-dG-positive (green) neurons (NeuN, red) in the prefrontal cortex from different experimental groups. (C) Quantitative analyses of the percentage in 4HNE-positive neuronal cells between different experimental groups.  $n = 10$  images from 4 mice. (D) Quantitative analyses of the number of 8-oxo-dG-positive neuronal cells between different experimental groups.  $n = 10$  images from 4 mice. Data were presented as mean  $\pm$  SEM and then analyzed by the one-way ANOVA test followed by Bonferroni's post hoc analysis. \*  $p < 0.05$ .



**Figure S5. Amelioration of TBI-induced excessive oxidative stress in the prefrontal cortex by SR9009.** (A) Representative images showing the 4HNE-positive (green) neurons (NeuN, red) in the prefrontal cortex from different experimental groups. DAPI (blue) is used for the nuclear stain (scale = 20  $\mu$ m). (B) Representative images showing the 8-oxo-dG-positive (green) neurons (NeuN, red) in the prefrontal cortex from different experimental groups. (C) Quantitative analyses of the percentage in 4HNE-positive neuronal cells between different experimental groups.  $n = 10$  images from 4 mice. (D) Quantitative analyses of the number of 8-oxo-dG-positive neuronal cells between different experimental groups.  $n = 10$  images from 4 mice. Data were presented as mean  $\pm$  SEM and then analyzed by the one-way ANOVA test followed by Bonferroni's post hoc analysis. \*  $p < 0.05$ .