

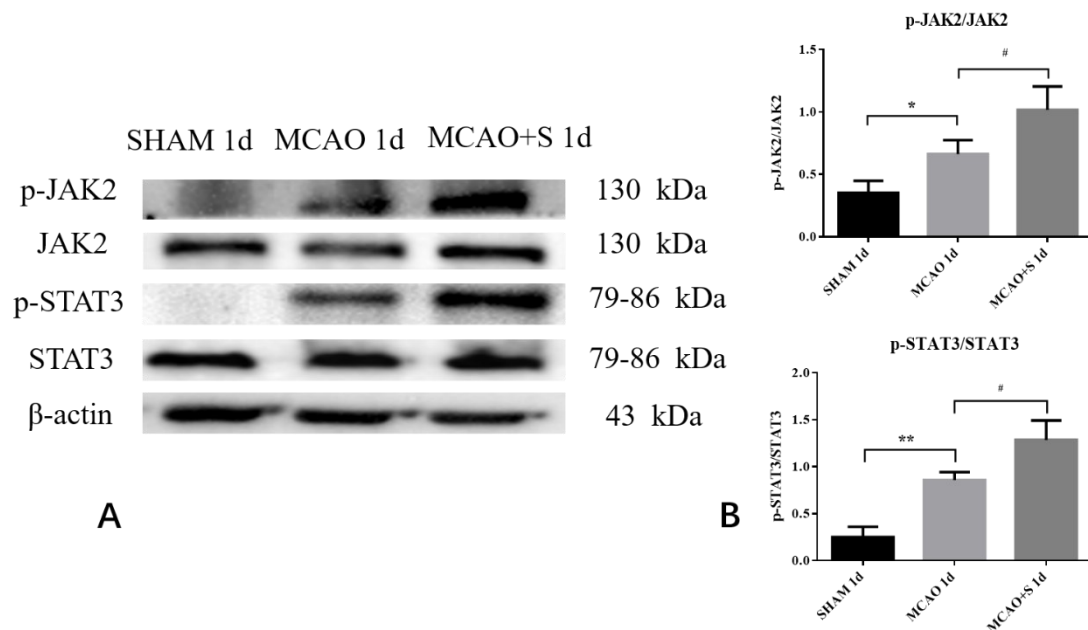


Fig.S1 Effects of scutellarin on the expression of JAK2/STAT3 signaling pathway proteins in cortical astrocytes of 1d MCAO rats.

A: Western blot images B: Quantitative analysis of expression levels of p-JAK2, JAK2, p-STAT3 and STAT3 protein

SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and MCAO+ scutellarin group, respectively. ** $p < 0.01$ vs sham-operated group; # $p < 0.05$ vs MCAO group.

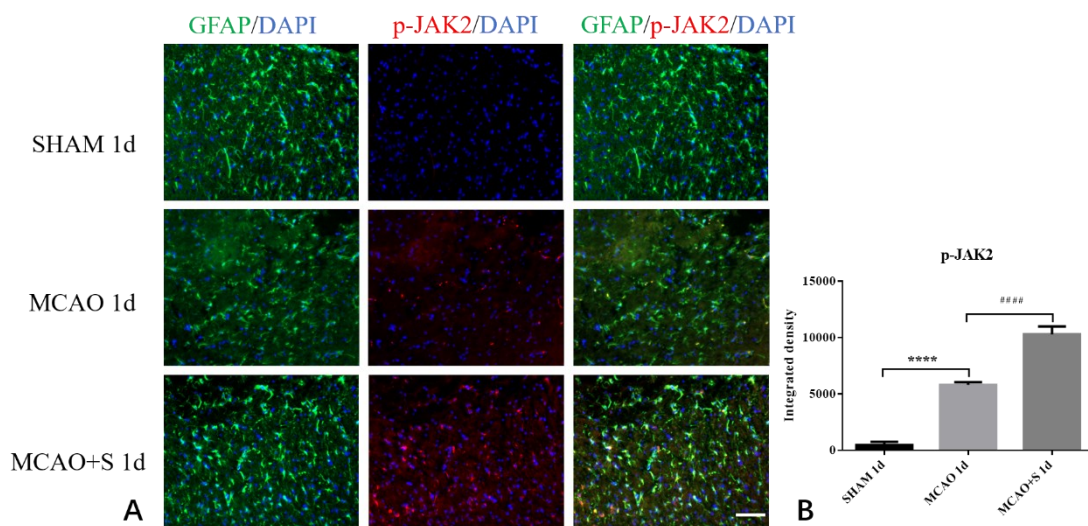


Fig.S2 A: p-JAK2 immunofluorescence in cortical astrocytes of 1d MCAO rats (200X).

B: Quantitative analysis of p-JAK2 immunofluorescence intensity level.

SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and

MCAO+ scutellarin group, respectively. **** $p<0.01$ vs sham-operated group; ##### $p<0.01$ vs MCAO group.

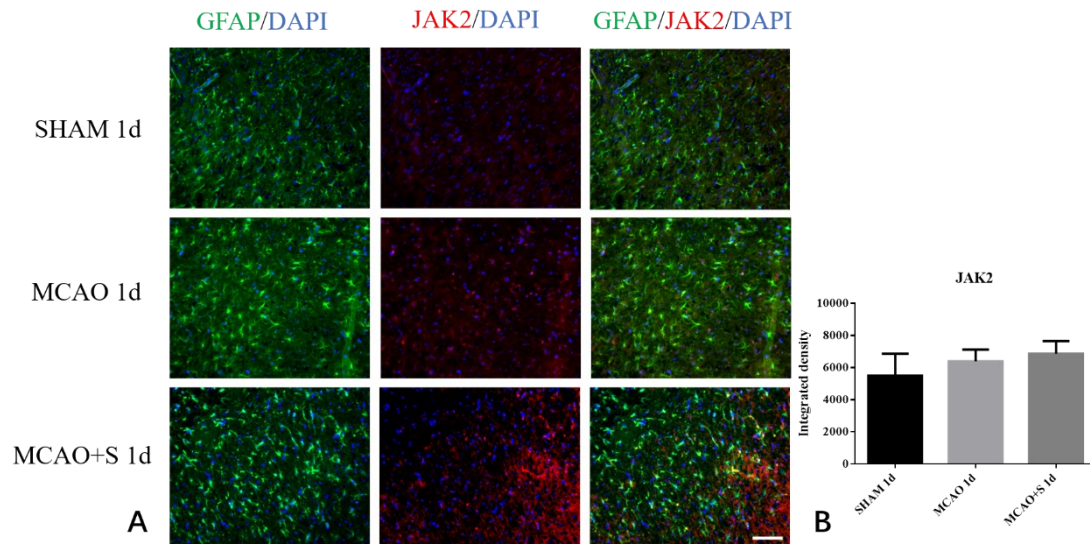


Fig.S3 A: JAK2 immunofluorescence in cortical astrocytes of 1d MCAO rats (200X).

B: Quantitative analysis of JAK2 immunofluorescence intensity level.

SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and MCAO+ scutellarin group, respectively.

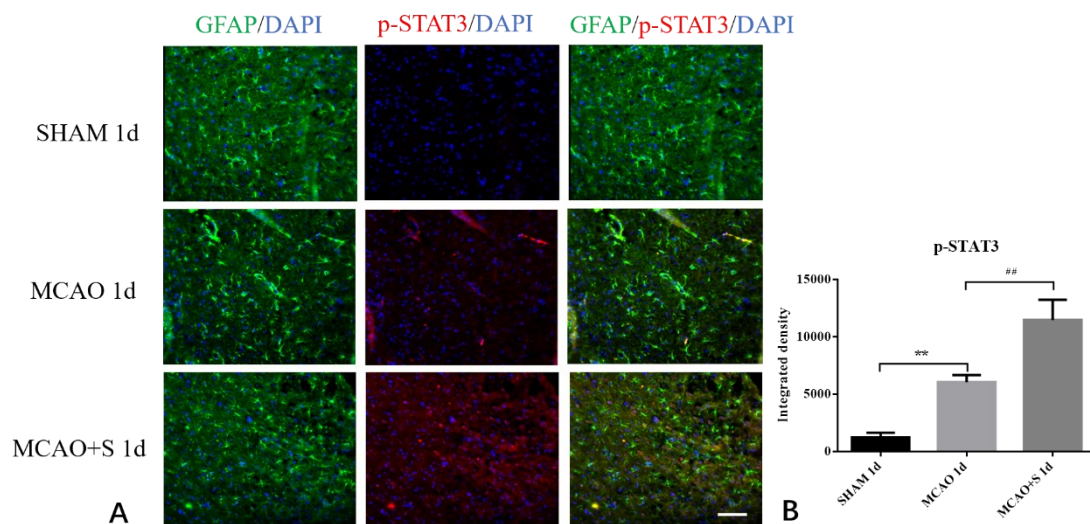


Fig.S4 A: p-STAT3 immunofluorescence in cortical astrocytes of 1d MCAO rats (200X).

B: Quantitative analysis of p-STAT3 immunofluorescence intensity level.

SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and MCAO+ scutellarin group, respectively. ** $p<0.01$ vs sham-operated group; ## $p<0.01$

vs MCAO group.

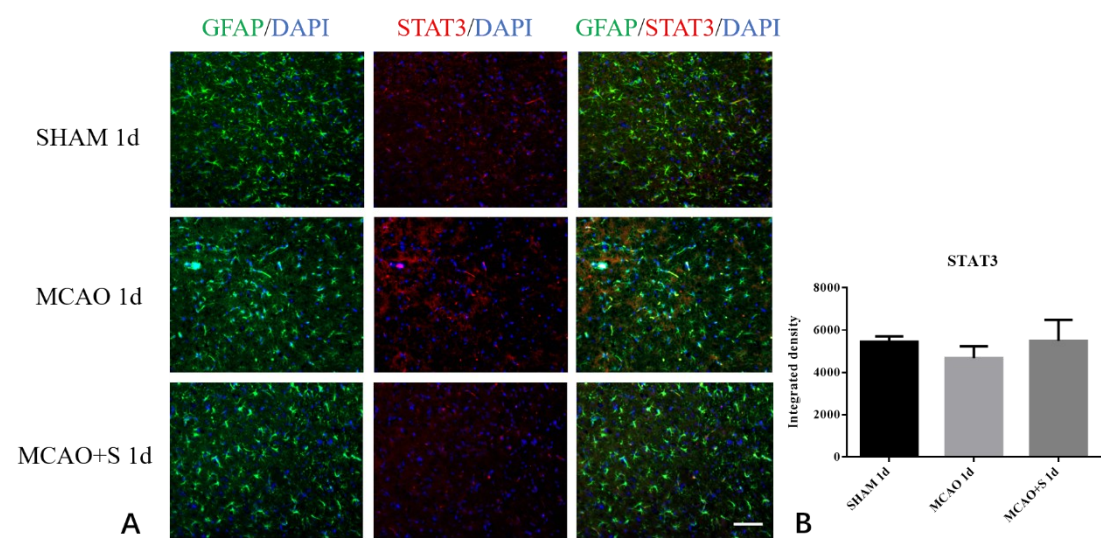


Fig.S5 A: STAT3 immunofluorescence in cortical astrocytes of 1d MCAO rats (200X).
 B: Quantitative analysis of STAT3 immunofluorescence intensity level.
 SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and MCAO+ scutellarin group, respectively.

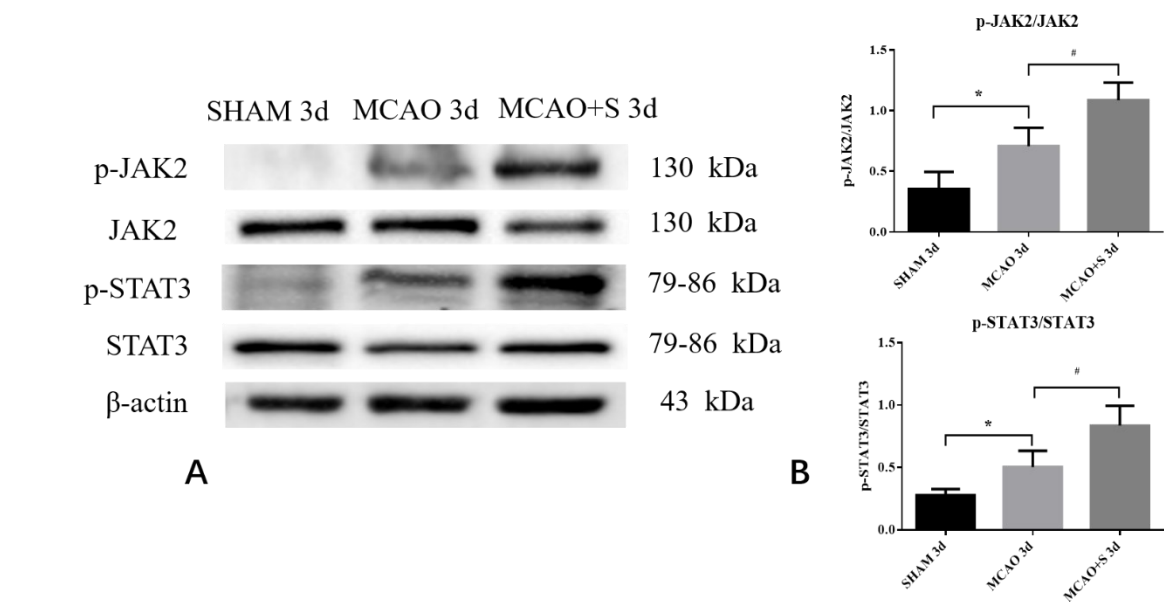


Fig.S6 Effects of scutellarin on expression of JAK2/STAT3 signaling pathway proteins in cortical astrocytes of 3d MCAO rats.
 A: Western blot images B: Quantitative analysis of the immunofluorescence intensity levels of p-JAK2, JAK2, p-STAT3 and STAT3 proteins.

SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and MCAO+ scutellarin group, respectively. * $p<0.05$ vs sham-operated group; # $p<0.05$ vs MCAO group.

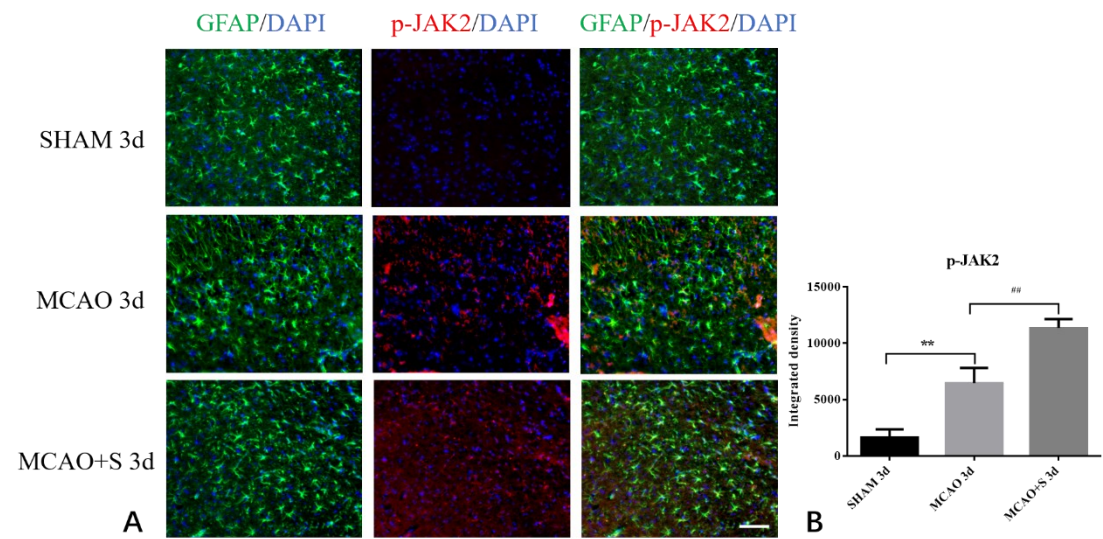


Fig.S7 A: p-JAK2 immunofluorescence in cortical astrocytes of 3d MCAO rats (200X).

B: Quantitative analysis of p-JAK2 immunofluorescence intensity level.

SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and MCAO+ scutellarin group, respectively. ** $p<0.01$ vs sham-operated group; ## $p<0.01$ vs MCAO group.

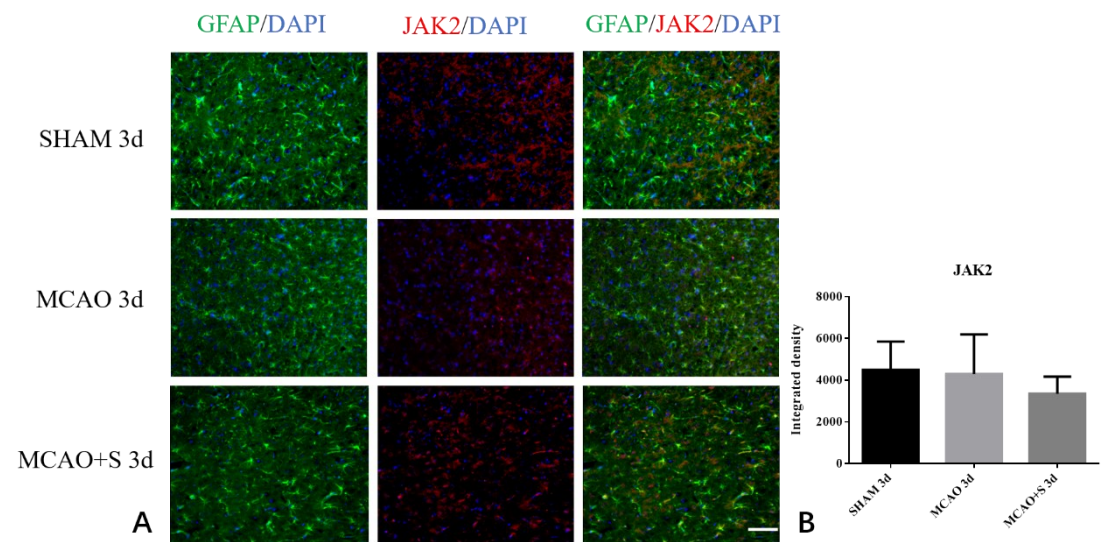


Fig.S8 A: JAK2 immunofluorescence in cortical astrocytes of 3d MCAO rats (200X).

B: Quantitative analysis of JAK2 immunofluorescence intensity level.

SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and

MCAO+ scutellarin group, respectively.

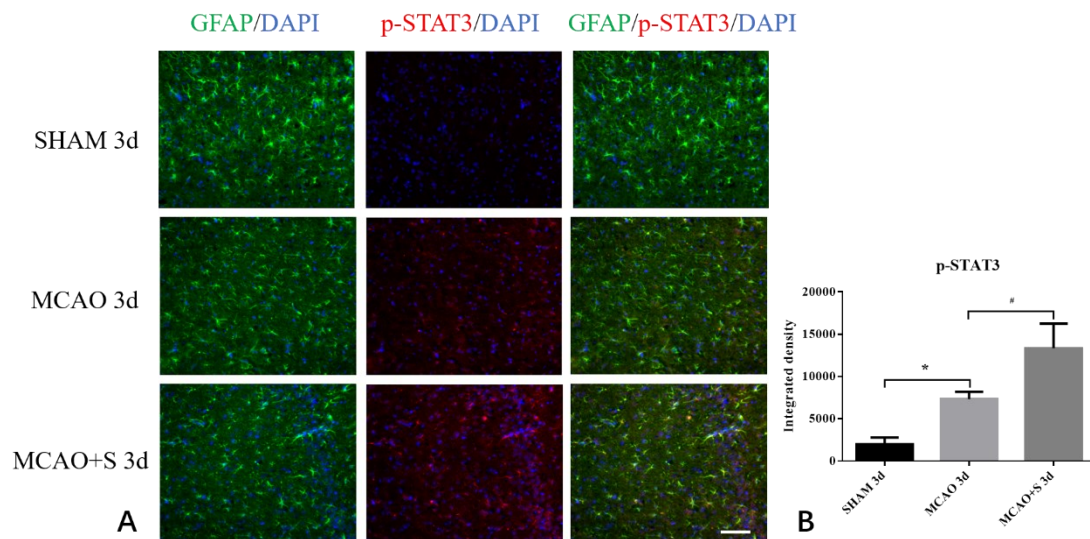


Fig.S9 A: p-STAT3 immunofluorescence in cortical astrocytes of 3d MCAO rats (200X). B: Quantitative analysis of p-STAT3 immunofluorescence intensity level. SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and MCAO+ scutellarin group, respectively. * $p < 0.05$ vs sham-operated group; # $p < 0.05$ vs MCAO group.

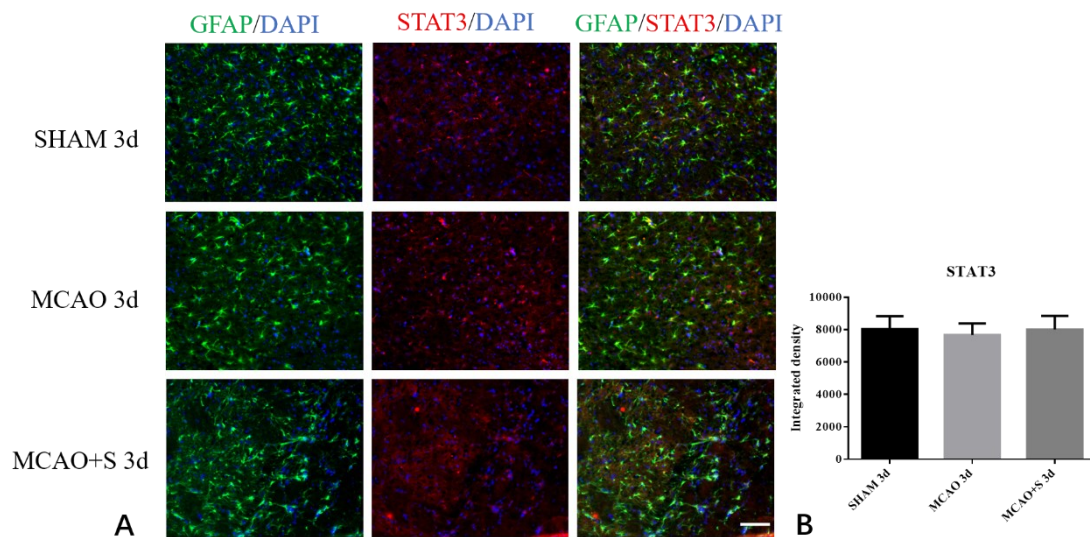


Fig.S10 A: STAT3 immunofluorescence in cortical astrocytes of 3d MCAO rats (200X). B: Quantitative analysis of STAT3 immunofluorescence intensity level. Note it is comparable in all 3 groups.

SHAM, MCAO, and MCAO+S represent the sham-operated group, MCAO group, and MCAO+ scutellarin group, respectively.