

Supplementary Figure S1

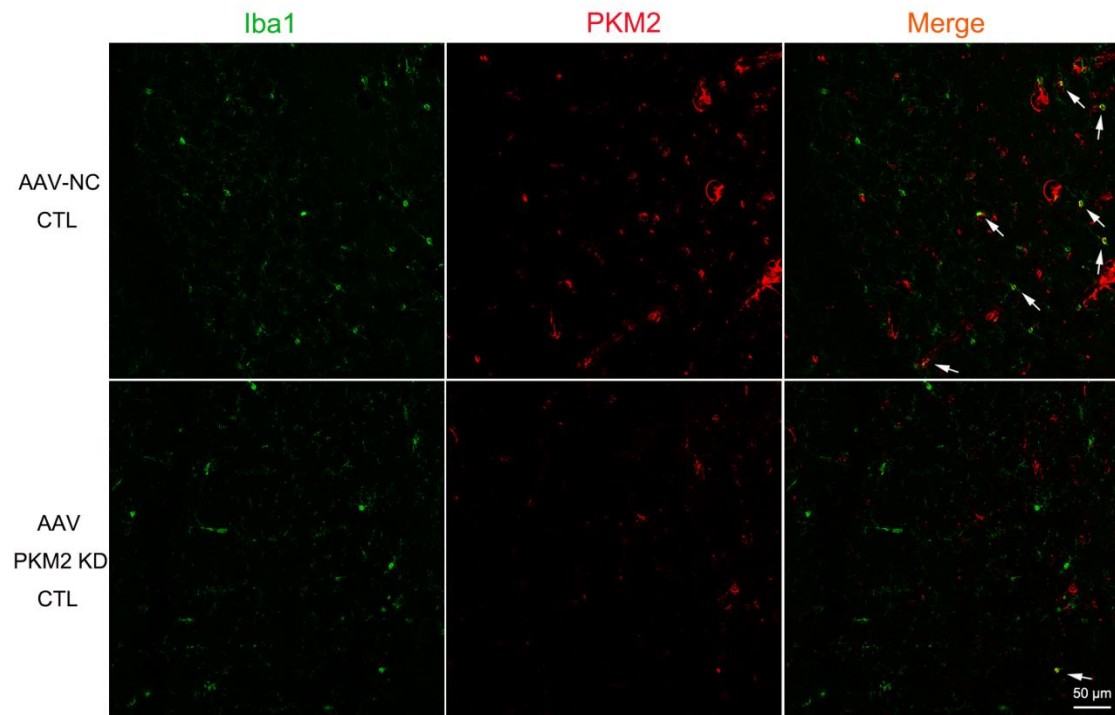


Figure S1. The knockdown efficiency of AAV-F4/80-PKM2 KD in the mice hippocampus. (a) Representative TSA staining images of PKM2 in Iba1-positive microglia in the hippocampus of CTL mice stereotactically injected with AAV-F4/80-NC or AAV-F4/80-PKM2 KD. Scale bar, 50 μ m. N=3 mice per group.

Supplementary Figure S2

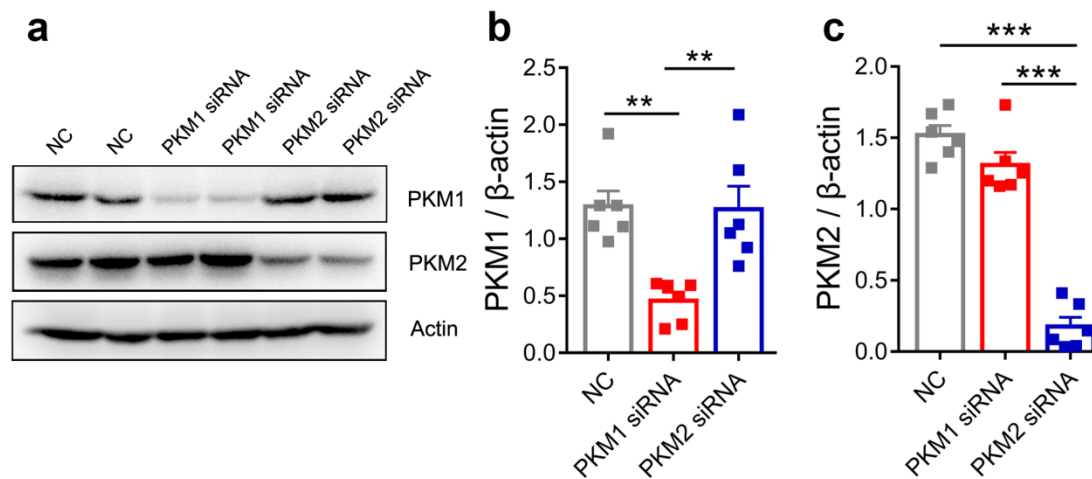


Figure S2. The knockdown efficiency of PKM2 siRNA in primary microglia. **(a)** Representative immunoblotting images of PKM1 and PKM2 in primary microglia transfected with NC siRNA, PKM1 siRNA or PKM2 siRNA. **(b)** Quantification of PKM1 protein expression in primary microglia transfected with NC siRNA, PKM1 siRNA or PKM2 siRNA. ** $p = 0.0033$, compared to the NC group; ** $p = 0.0042$, compared to the PKM1 siRNA group. **(c)** Quantification of PKM2 protein expression in primary microglia transfected with NC siRNA, PKM1 siRNA or PKM2 siRNA. *** $p < 0.0001$, compared to the NC group; *** $p < 0.0001$, compared to the PKM1 siRNA group. For six independent experiments. Data are presented as mean \pm SEM.

Supplementary Figure S3

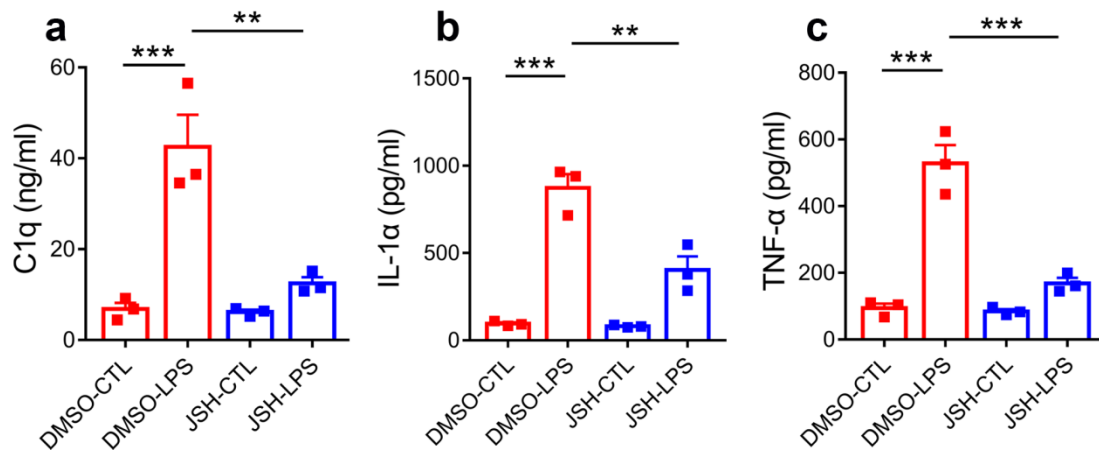


Figure S3. NF-κB inhibition attenuates LPS-induced C1q, TNF-α and IL-1α secretion in microglia. Quantitative of supernatant C1q (**a**, *** $p = 0.0006$, compared to the DMSO-CTL group; ** $p = 0.0018$, compared to the DMSO-LPS group), IL-1α (**b**, *** $p < 0.0001$, compared to the DMSO-CTL group; ** $p = 0.0015$, compared to the DMSO-LPS group) and TNF-α (**c**, *** $p < 0.0001$, compared to the DMSO-CTL group; *** $p = 0.0001$, compared to the DMSO-LPS group) concentration in DMSO or JSH pretreated primary microglia accompany with or without LPS. For three independent experiments. Data are presented as mean \pm SEM.

Supplementary Figure S4

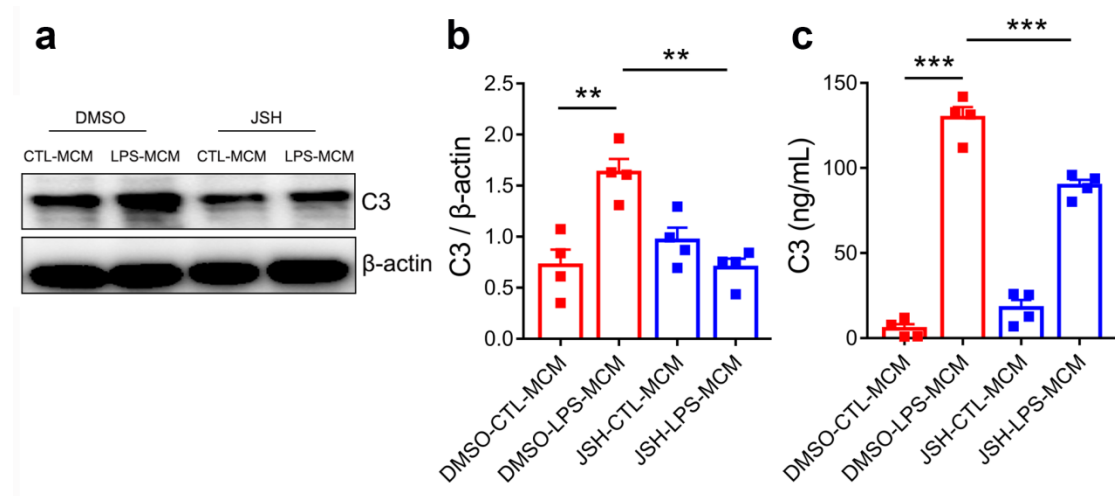


Figure S4. Microglia NF-κB inhibition reduces astrocyte C3 expression. Representative immunoblotting images (**a**) and quantification of C3 protein (**b**, **p=0.0015, compared to the DMSO-CTL-MCM group; **p=0.0012, compared to the DMSO-LPS-MCM group) in astrocyte treated with MCM of primary microglia pretreated with JSH or DMSO followed by PBS or LPS treatment groups. For four independent experiments. (**c**) ELISA measurement of astrocyte supernatant C3 concentration in astrocyte treated with MCM of primary microglia pretreated with JSH or DMSO followed by PBS or LPS treatment groups; ***p<0.0001, compared to the DMSO-CTL-MCM group; ***p=0.0002, compared to the DMSO-LPS-MCM group. For four independent experiments. Data are presented as mean ± SEM.