

Supplementary material-figures

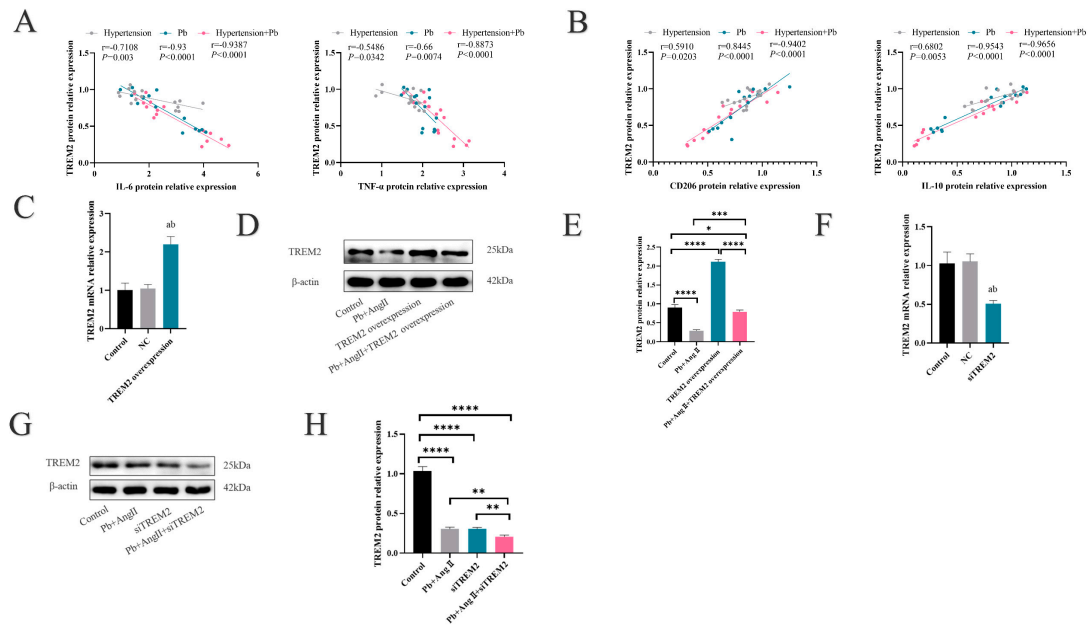


Figure S1. TREM2 played the vital role in microglia related neuroinflammation caused by Pb and AngII exposure.

- (A) Association of TREM2 expression in the PFC of hypertensive and/or Pb-exposed mice with IL-6, TNF- α (n=15).
- (B) Association of TREM2 expression in the PFC of hypertensive and/or Pb-exposed mice with CD206, IL-10 (n=15).
- (C) The mRNA expression with/without TREM2 overexpression (n=6). ^a $P < 0.05$ vs control, ^b $P < 0.05$ vs NC.
- (D) The protein expression levels of TREM2 in response to Pb+AngII treatment at 24h with/without overexpressing TREM2.
- (E) Analysis of TREM2 protein expression (n=3). **** $p < 0.0001$, *** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$ vs indicated group (The same below).
- (F) The mRNA expression with/without TREM2 knockout (n=6). ^a $P < 0.05$ vs control, ^b $P < 0.05$ vs NC.
- (G) The protein expression levels of TREM2 in response to Pb+AngII treatment at 24h with/without knocking out TREM2.
- (H) Analysis of TREM2 protein expression (n=3).

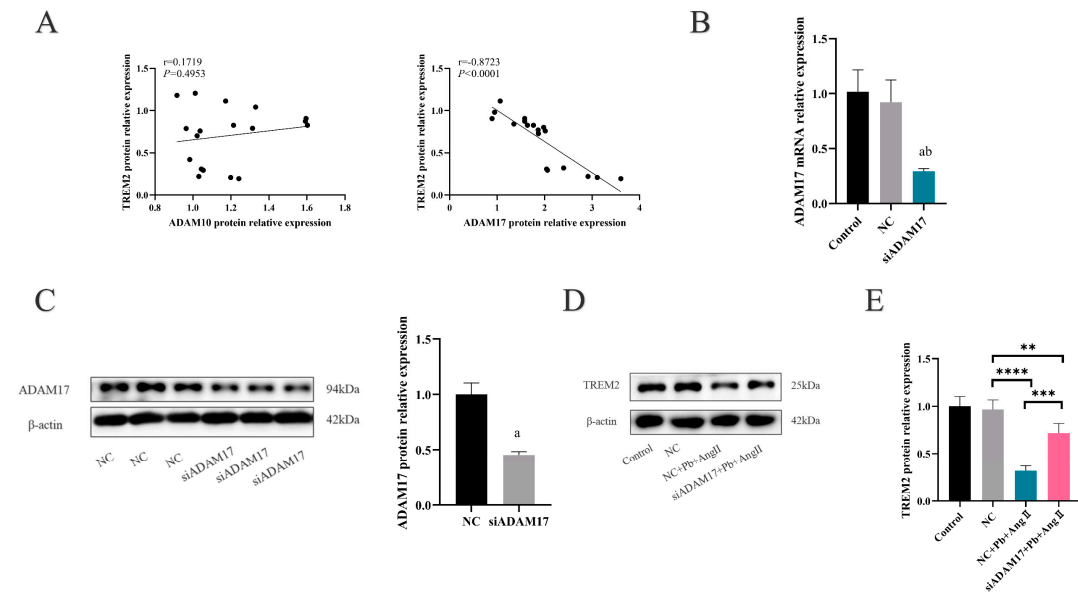


Figure S2. TREM2 was primarily clipped by ADAM17 in hypertensive mice after Pb exposure.

- (A) Association of TREM2 expression in BV-2 cells of Pb+AngII treatment with the expression of ADAM10, ADAM17 (n=18).
- (B) ADAM17 mRNA in BV-2 cells after siADAM17 transfection (n=6). $^aP < 0.05$ vs control, $^bP < 0.05$ vs NC.
- (C) The image and statistical analysis of ADAM17 protein expression in BV-2 cells after siADAM17 transfection (n=3). $^aP < 0.05$ vs NC.
- (D) The expression of TREM2 protein in BV-2 cells after siADAM17 transfection.
- (E) The statistical analysis of TREM2 protein expression in BV-2 cells after siADAM17 transfection (n=3).