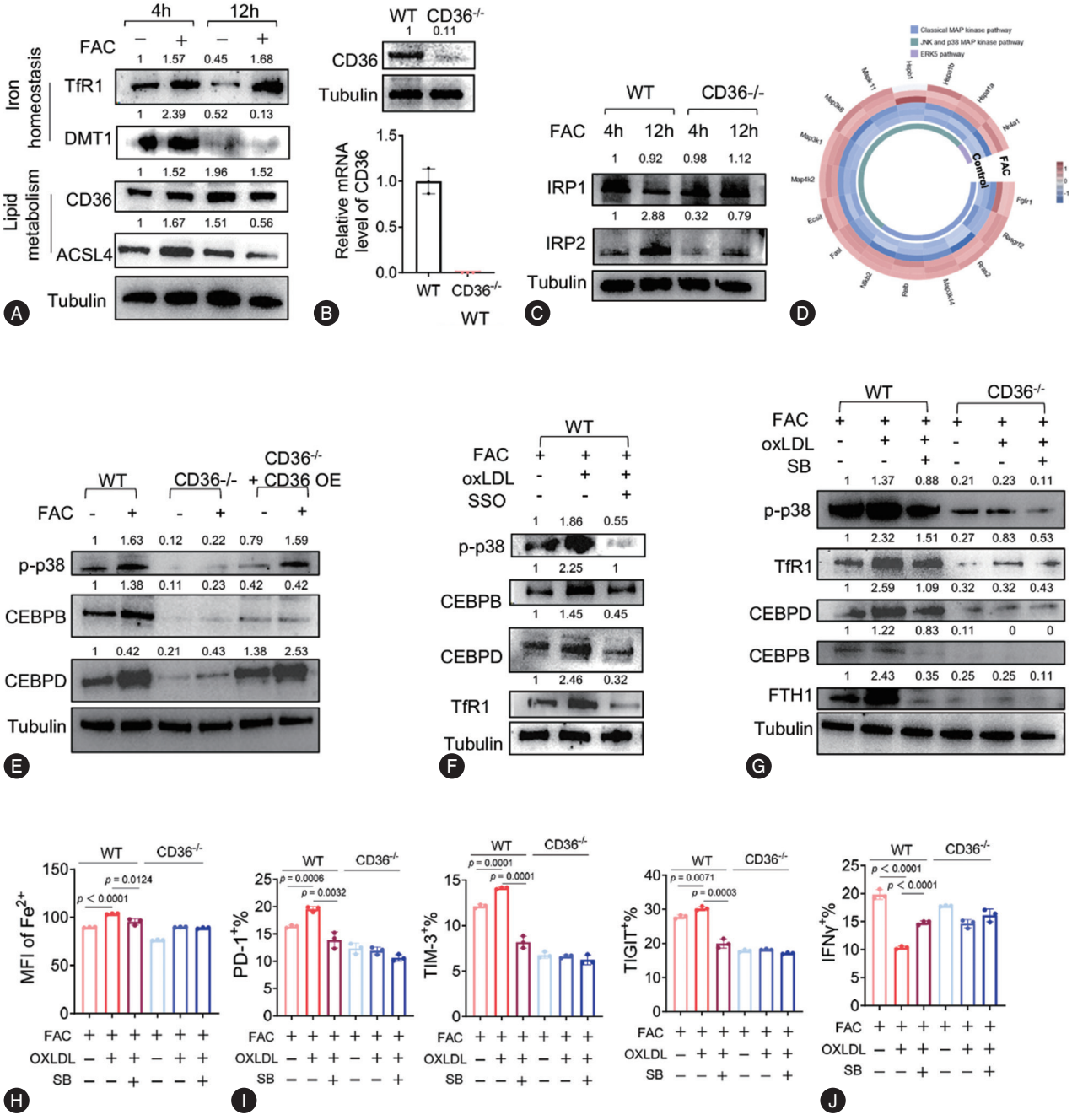

Supplementary Figure 12. CD36 contributes to the activation of p38-CEBPB-TfR1 signaling. (A) Protein levels of TfR1, divalent metal transporter 1 (DMT1), CD36 and acyl-CoA synthetase long-chain family 4 (ACSL4) in $CD8^+$ T cells following treatment with FAC for 4 and 12 hours. (B) Efficiency of CD36 depletion in splenic $CD8^+$ T cells of $CD36^{-/-}$ mice, measured by qRT-PCR and western blotting. n=3 mice. (C) Protein levels of IRP1 and IRP2 in $CD8^+$ T cells or $CD36^{-/-}$ $CD8^+$ T cells following treatment with FAC for 4 and 12 hours. (D) Heatmap showing relative expression of genes enriched in MAPK pathway. (E) phopho-p38, CEBPB and CEBPD protein expression levels in WT $CD8^+$ T cells, $CD36^{-/-}$ $CD8^+$ T cells and $CD36^{-/-}$ $CD8^+$ T cells overexpressing CD36 with or without FAC stimulation (5 mM) for 12 hours. (F) WT $CD8^+$ T cells were treated with FAC, the combination of oxLDL and FAC with or without the presence of CD36 inhibitor SSO (HY-112847A MCE, 10 μM). The levels of p-p38, CEBPB, CEBPD and TfR1 were analyzed by western blotting. (G) Protein levels of p-p38, CEBPB, CEBPD, TfR1 and FTH1 in $CD8^+$ T cells or $CD36^{-/-}$ $CD8^+$ T cells following treatment with oxLDL (80 μg/mL), FAC (2.5 mM, 12 hours), the combination of oxLDL and FAC, or the combination of oxLDL, FAC and SB (SB203580, inhibitor of p38, 1 μM, 24 hours). n=3 samples per condition. Levels of Fe^{2+} (H), PD-1, TIM-3, TIGIT (I) and IFNγ (J) were measured by flow cytometry.