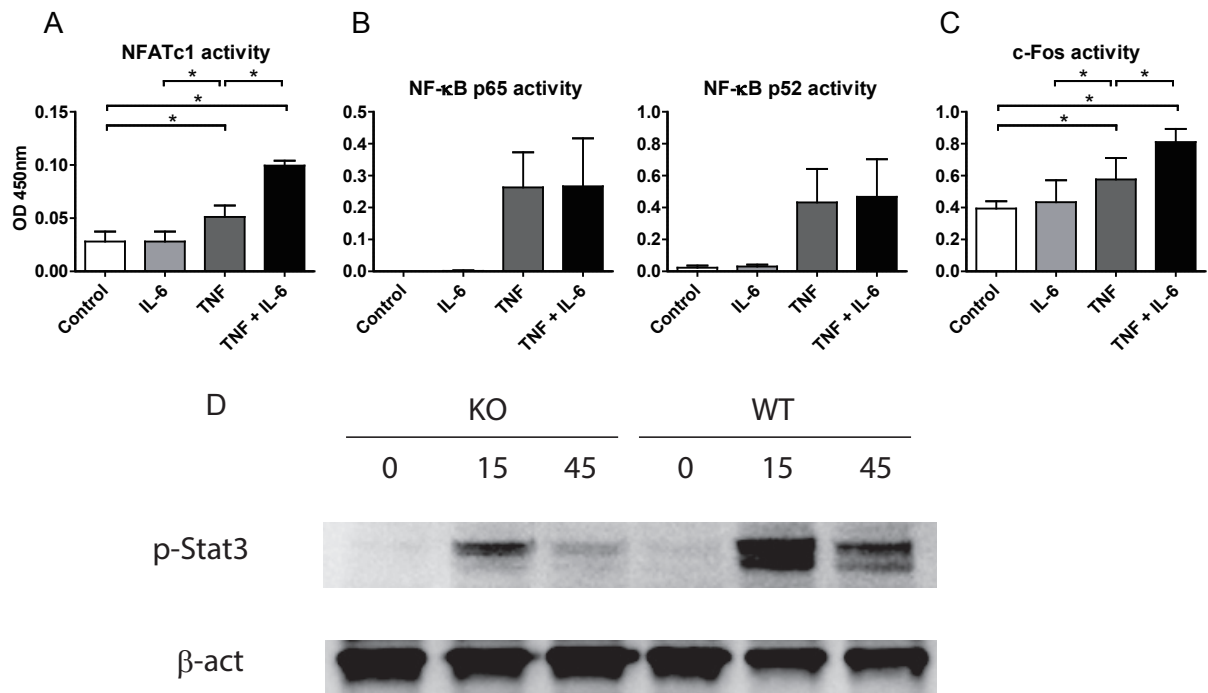


**Supplementary Figure 1**

(A) Anti-IL-1 $\beta$  antibody (10  $\mu$ g/ml) did not affect the differentiation of TRAP<sup>+</sup> MNCs (n=3).

(B) Actin rings were visualized by staining with Alexa 546-labeled phalloidin. Nuclei were stained with 4',6-diamidino-2-phenylindole (DAPI).



**Supplementary Figure 2**

(A) Quantification of NFATc1 activity using an ELISA-based system after 72-h stimulation. (B) Activities of the canonical (represented by NF-κB p65) and non-canonical (represented by NF-κB p52) pathways of NF-κB. The cells were restimulated for 30 min after 12-h stimulation and then harvested. (C) Activity of c-Fos. The cells were restimulated with cytokine(s) for 30 min after 24-h stimulation and then harvested. (D) Western blot analysis of phospho-Stat3 (Tyr705) in BMMs from Stat3 conditional KO (*LysM-cre/Stat3<sup>fllox/fllox</sup>*) mice and from control (*Stat3<sup>fllox/fllox</sup>*) mice. The cells were stimulated with IL-6 (50 ng/mL) for 15 or 45 min.