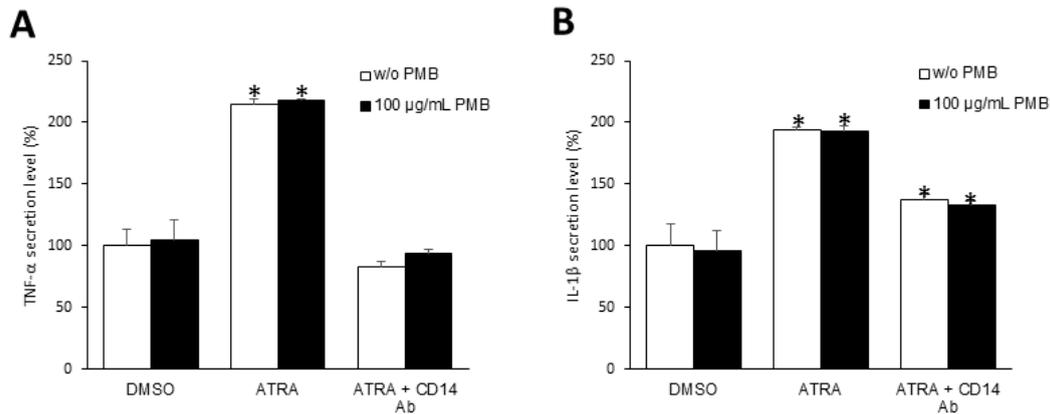


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 2 **Figure S1. Schematic diagram for mechanism of NF-κB activation reporting assay using THP1-**  
 3 **XBlue cells.** THP-1 Xblue cells stably express NF-κB/AP-1 inducible secreted alkaline phosphate  
 4 (SEAP) gene. Upon activation of Toll-like receptor pathway by specific ligands, such as bacterial  
 5 flagellin, these cells are activated to make an intracellular signaling, which eventually activates  
 6 transcription factor NF-κB, then SEAP is subsequently expressed. Secretion of SEAP is easily  
 7 detectable by specific substrate Quanti-blue, which turns blue in the presence of SEAP. The blue color  
 8 development can be detected by ELISA reader. SEAP, secretion of embryonic alkaline phosphatase;  
 9 NEMO, NF-κB essential modulator; IKK, IκB kinase.

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1 **Figure S2. ATRA-enhanced proinflammatory cytokine secretion upon flagellin challenge is not**  
 2 **due to LPS contamination.** THP-1 cells were pretreated with 1 μg/mL CD14 antibody (My4) for 30  
 3 min prior to treatment with or without 1 μM ATRA for 24 h and then stimulated with flagellin from *S.*  
 4 *typhimurium* in the presence of 100 μg/mL polymyxin B (PMB) for 24 h. Cell culture supernatant was  
 5 collected and subjected to the ELISA assay for TNF-α (A) or IL-1β (B) to quantify amount of secreted  
 6 cytokine. Bar graphs indicate cytokine secretion level ± SD. Statistical significance was assessed by one-  
 7 way ANOVA using SPSS. \* p < 0.05 vs DMSO group.

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