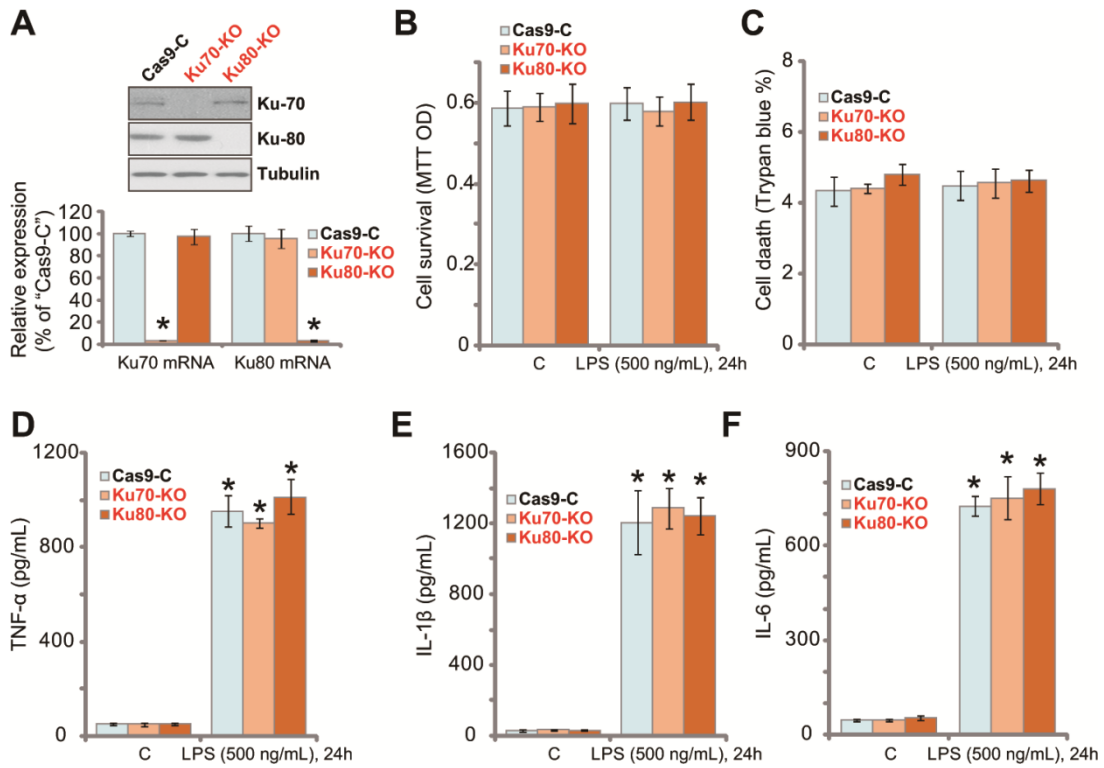
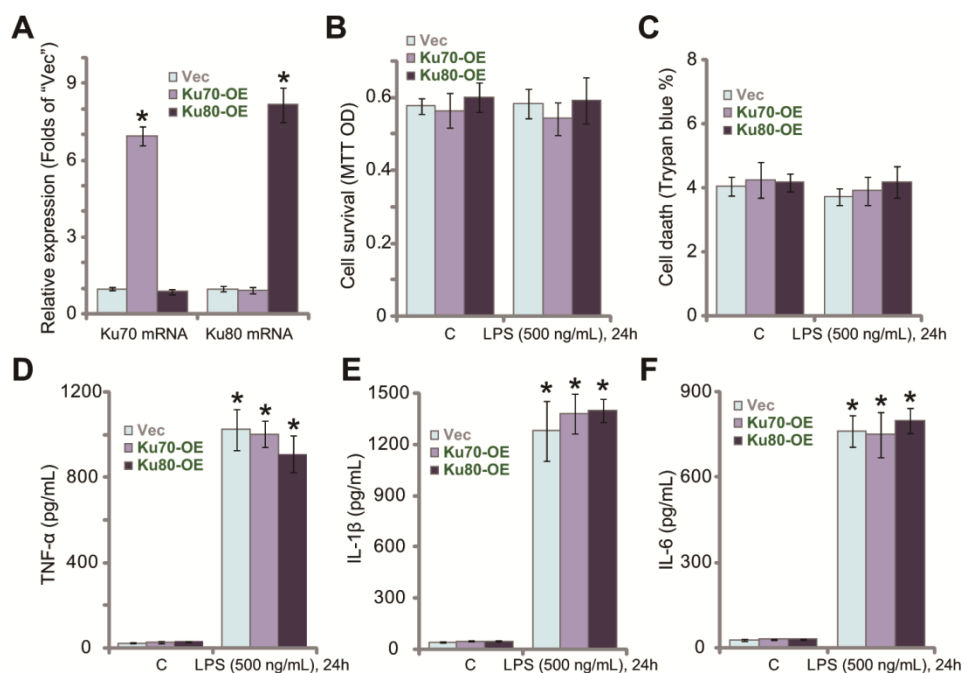


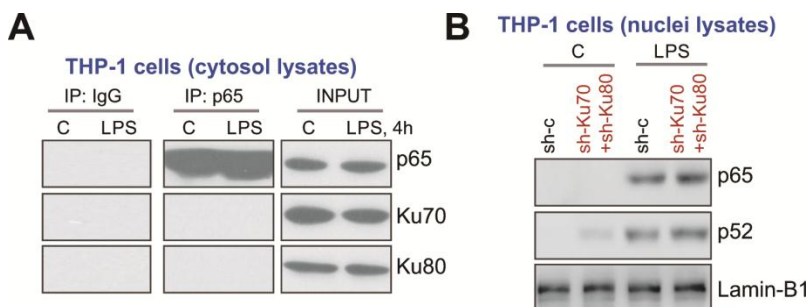
SUPPLEMENTARY FIGURES



Supplementary Figure 1. THP-1 human macrophages were transfected with lenti-CRISPR/Cas9-Ku70 KO construct ("Ku70-KO") or the lenti-CRISPR/Cas9-Ku80 KO construct ("Ku80-KO"), control cells were transfected with CRISPR/Cas9 control vector ("Cas9-C"); Stable cells were established following puromycin selection, *Ku70* and *Ku80* mRNA and protein expression was tested by qPCR and Western blotting analyses (A); Cells were further treated with LPS (500 ng/mL) or vehicle control ("C") for 24h, cell viability and death were tested by MTT (B) and Trypan blue staining (C), respectively; The cytokines (TNF-α, IL-1β and IL-6) contents in the medium were tested by ELISA assays (D-F); Data were expressed as mean ± standard deviation (SD, n=5). **p*<0.05 vs. "C" treatment of "Cas9-C" cells. Experiments in this figure were repeated three times, and similar results were obtained.



Supplementary Figure 2. *Ku70* and *Ku80* mRNA expression in stable THP-1 human macrophages with the *Ku70*-expressing AAV construct ("Ku70-OE"), the *Ku80*-expressing AAV construct ("Ku80-OE") or with control vector AAV ("Vec") was shown (A); Cells were treated with LPS (500 ng/mL) or vehicle control ("C") for indicated time, cell viability and death were tested by MTT (B) and Trypan blue staining (C), respectively; The cytokines (TNF- α , IL-1 β and IL-6) contents in the medium were tested by ELISA assays (D-F); Data were expressed as mean \pm standard deviation (SD, n=5). (E) * $p < 0.05$ vs. "C" treatment of "Vec" cells. Experiments in this figure were repeated four times, and similar results were obtained.



Supplementary Figure 3. THP-1 cells were treated with LPS (500 ng/mL) for 4h, the cytosol lysates were subjected to co-immunoprecipitation assay ("IP: p65") and Western blotting assay ("INPUT") (A). Stable THP-1 human macrophages, bearing control shRNA lentivirus ("sh-c"), *Ku70* shRNA lentivirus plus *Ku80* shRNA lentivirus ("sh-Ku70+sh-Ku80"), were treated with LPS (500 ng/mL) or vehicle control ("C") for 6h, p52-p65 expression in the nuclear lysates was tested (B). Experiments in this figure were repeated four times, and similar results were obtained.