

Figure S1. Identification of BMDCs. **A.** Morphology of BMDCs on day 8. **B.** Flow cytometry analysis of phenotype of BMDCs (CD45⁺CD11c⁺, gating from live cells).

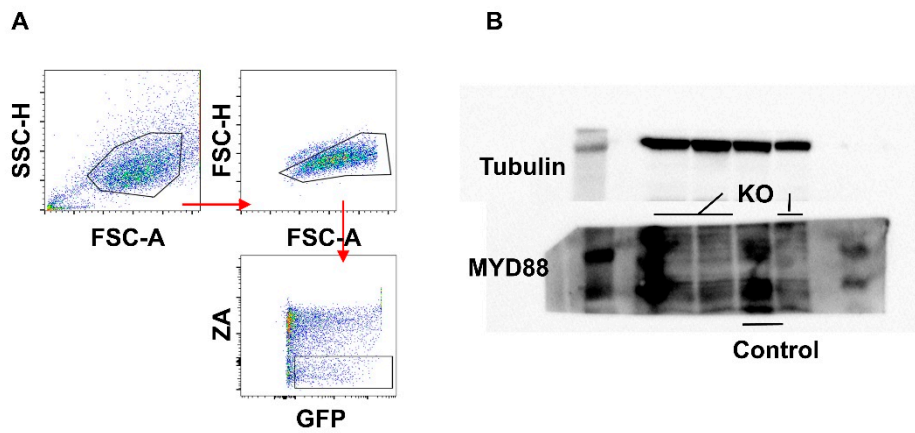


Figure S2. Representative flow cytometry plots of sorting DC2s and original image of western blot. **A.** Representative flow cytometry plots of gating strategy for sorting DC2s which demonstrated successful transfection with plasmid containing *Myd88* gRNA. **B.** Original image of western blot showed MYD88 expression in *Myd88*-KO DC2s and control.

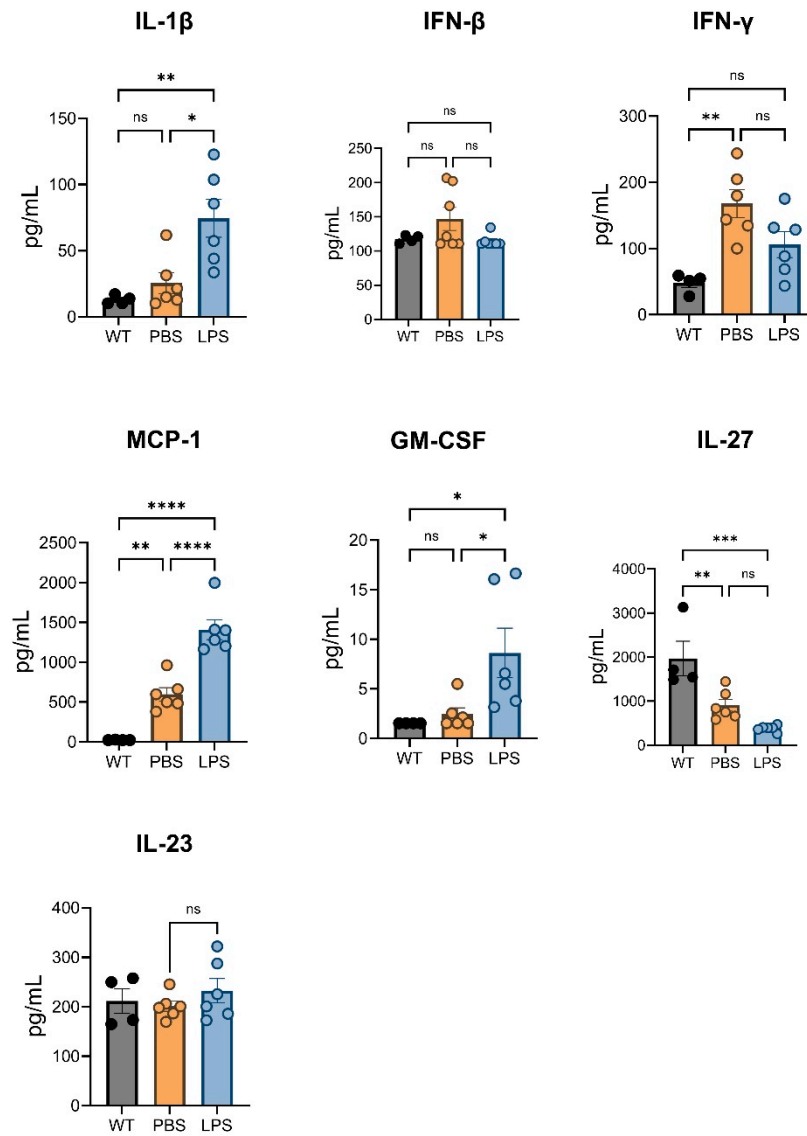


Figure S3. Comparison of other inflammatory cytokines detected in cauda epididymis 24 hours after LPS treatment. The concentration of IL-1 β , IFN- β , IFN- γ , MCP-1, GM-CSF, IL-27, and IL-23 was measured in wild type (WT), sham treated controls (PBS), and LPS-induced mice (WT: $n=4$, PBS and LPS: $n=6$). Results were expressed as mean \pm SD and were analyzed by one-way ANOVA. * $p<0.05$, ** $p<0.01$, *** $p<0.001$, **** $p<0.0001$; ns, not significant.

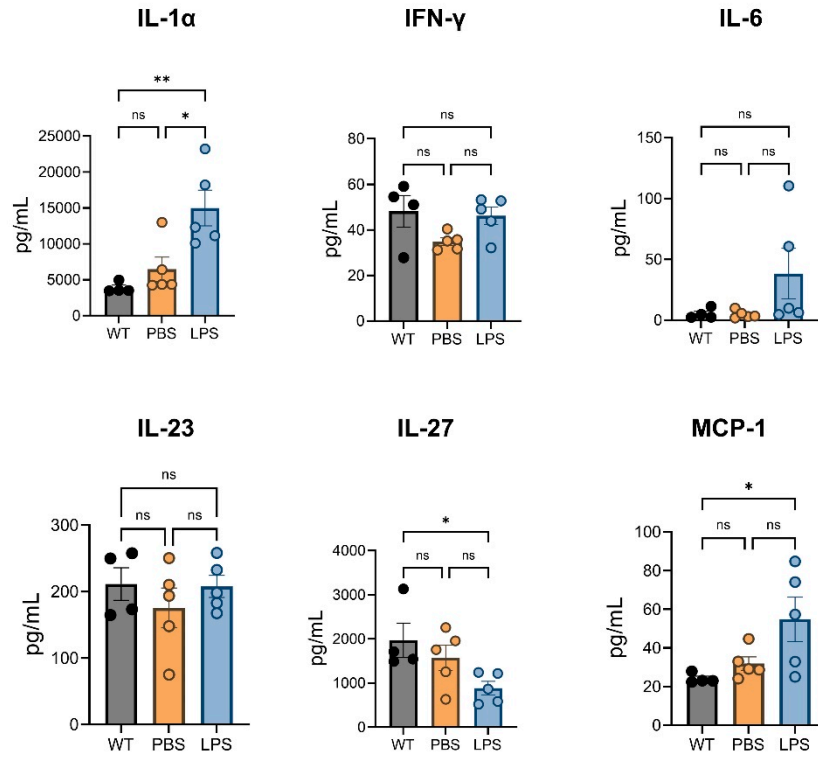


Figure S4. Inflammatory cytokines detected in cauda epididymis at 7 days after LPS treatment. Comparison of IL- α , IFN- γ , IL-6, IL-23, IL-27, and MCP-1 in WT, PBS, and LPS-induced mice (WT: $n=4$, PBS and LPS: $n=5$). Results are expressed as mean \pm SD and were analyzed by one-way ANOVA. * $p<0.05$, ** $p<0.01$; ns, not significant.

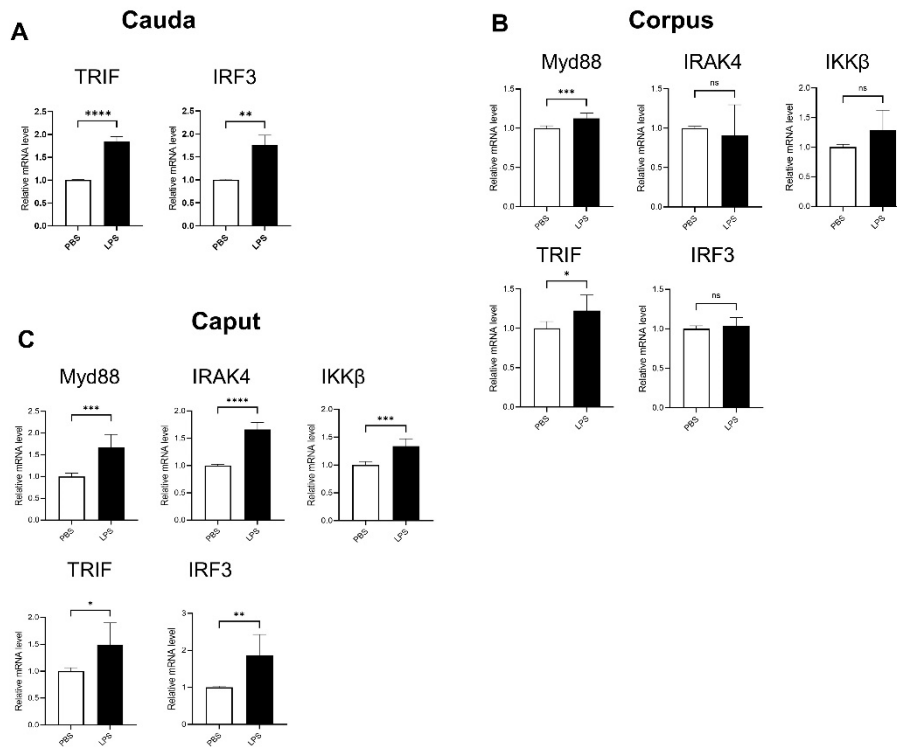


Figure S5. The mRNA of *Myd88/TRIF* signaling pathway expressed in caput, corpus, and cauda in LPS-induced mouse epididymitis. **A.** Analysis of relative mRNA expression of *TRIF* and *IRF3* in cauda epididymis between PBS and LPS groups. **B-C:** Comparison of relative mRNA expression of *MyD88*, *IRAK4*, *IKKβ*, *TRIF* and *IRF3* in corpus (**B**) and caput (**C**) and epididymis between PBS and LPS group. Data were represented as mean \pm SD of three independent experiments and analyzed by independent t-test. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$; ns, not significant.

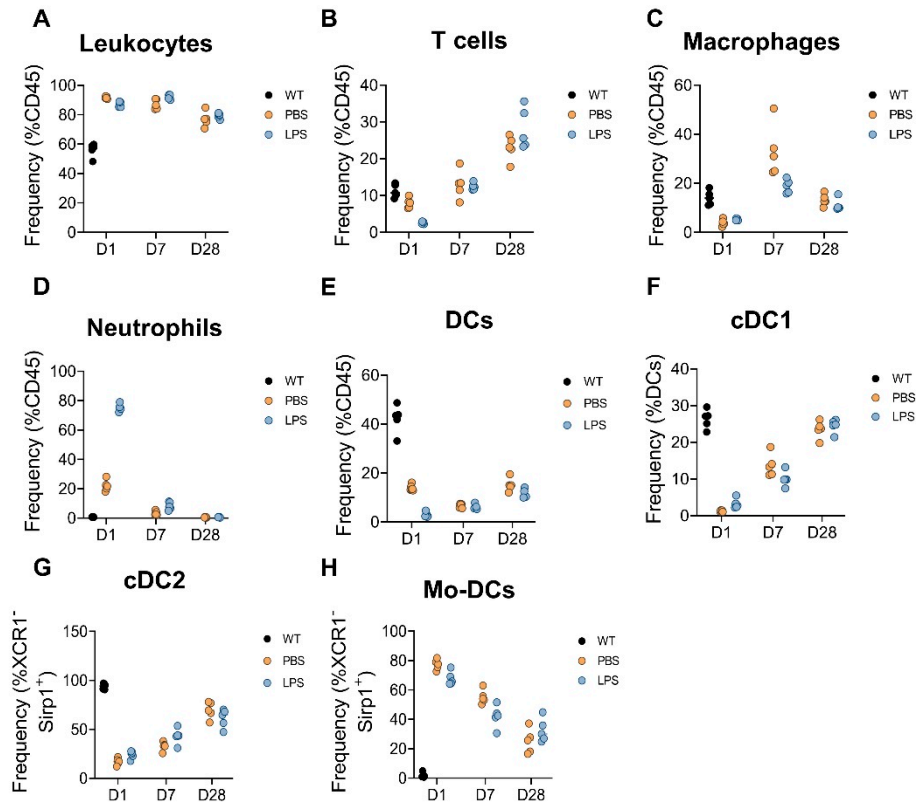


Figure S6. The percentage of immune cells in LPS-induced mouse epididymitis at different time points. **A-D:** The percentage of epididymal leukocytes, T cells, macrophages and neutrophils was detected in WT, PBS, and LPS groups at 1, 7, 28 days after treatment ($n=5$). **F-H:** The proportion of epididymal DCs and subsets was measured at the indicated time point ($n=5$).

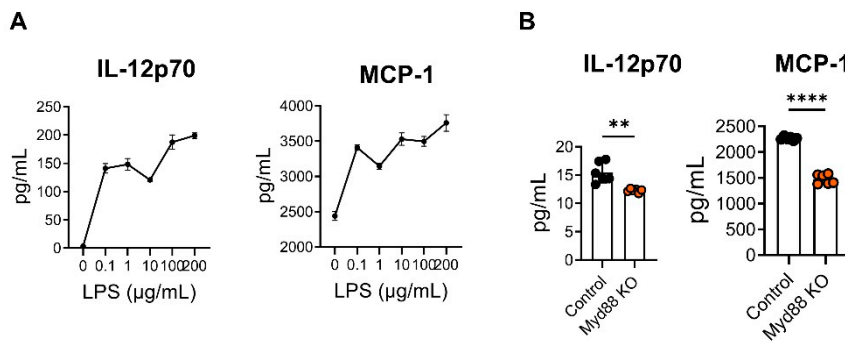


Figure S7. Other Inflammatory cytokines in mouse bone marrow-derived dendritic cells (BMDCs) with CRISPR-Cas9 mediated *Myd88* knockout. **A.** The concentration of IL-12p70 and MCP-1 in the supernatants after 24 hours with 0-0.1-1-10-100-200 µg/ml LPS stimulation ($n=3$). **B.** Comparison of IL-12p70 and MCP-1 secreted by *Myd88*-KO BMDCs and control were analyzed. Data were expressed as mean \pm SD and statistics were analyzed by independent t test ($n=6$), ** $p < 0.01$, **** $p < 0.0001$.