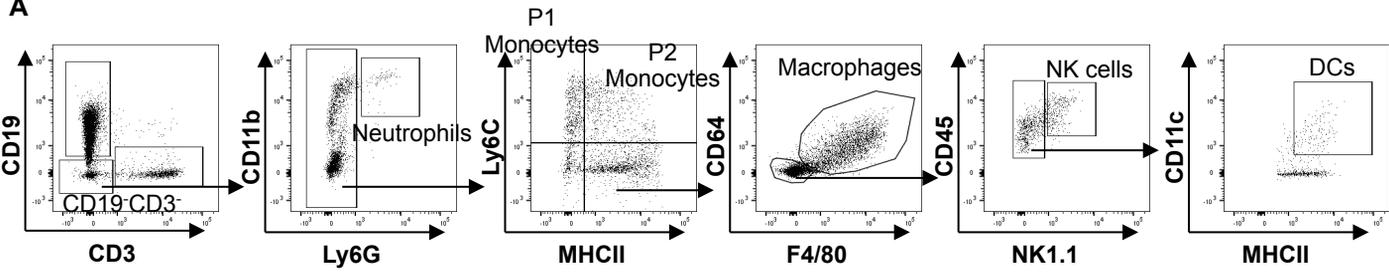
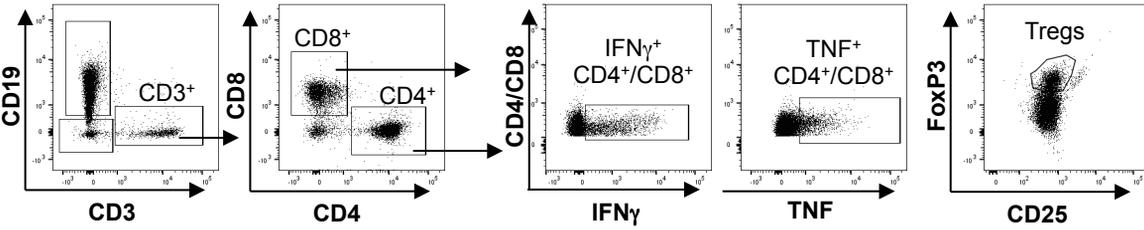


Supplementary Figure S1

A



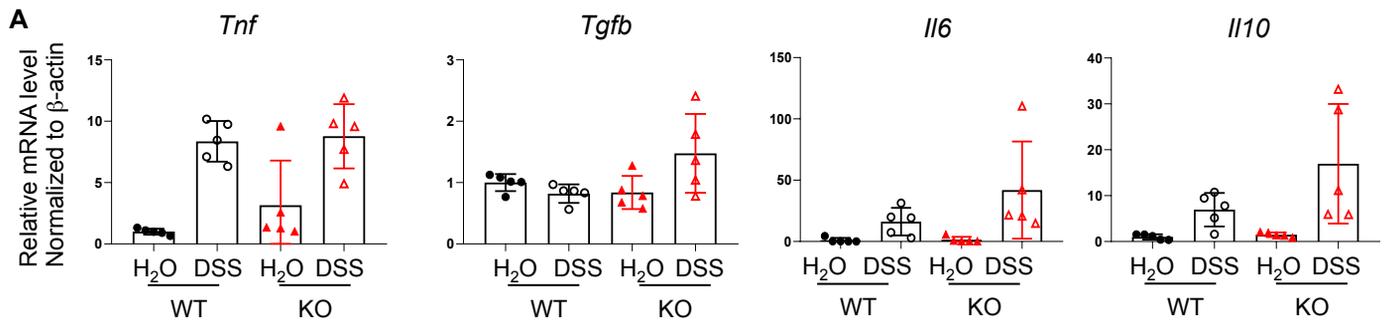
B



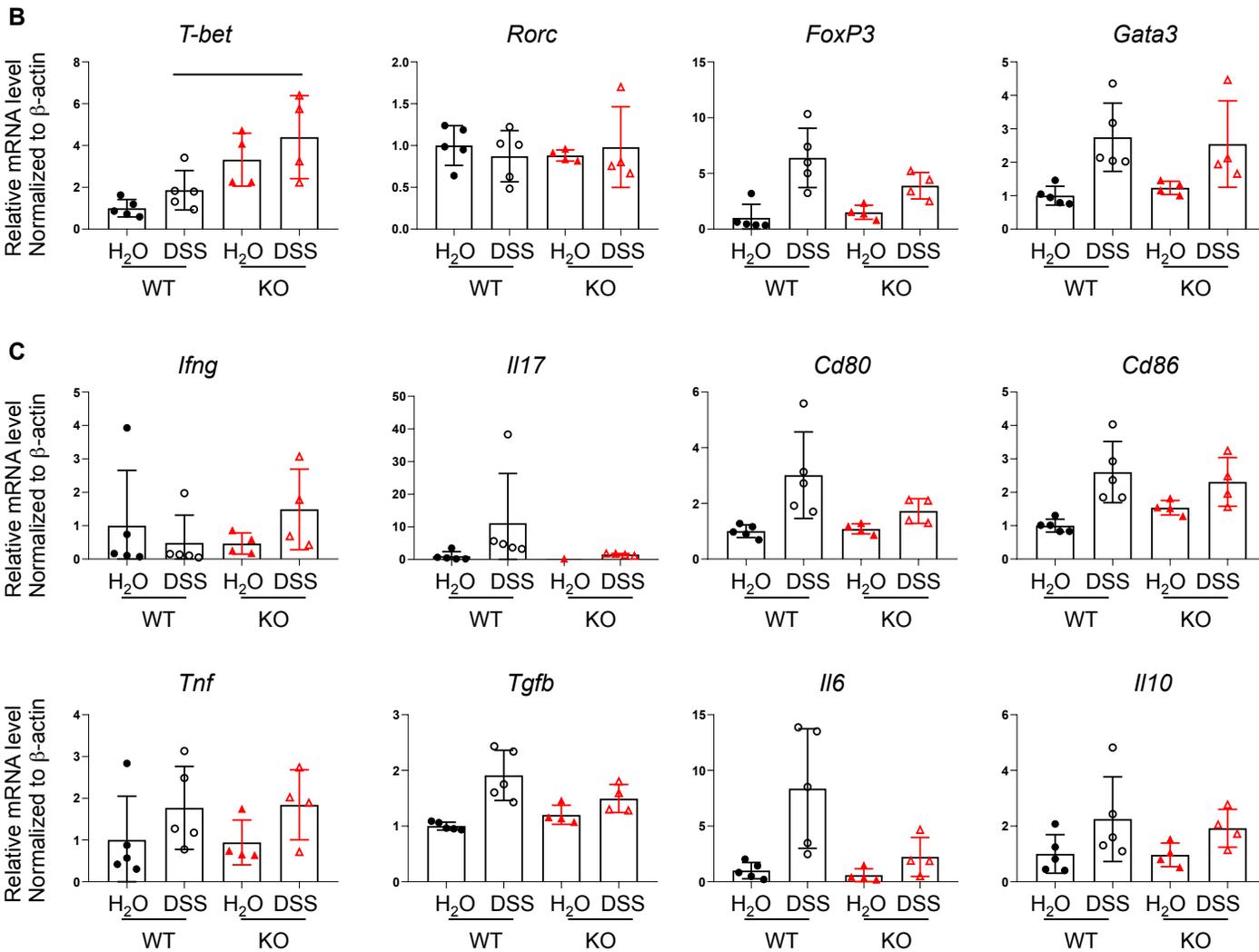
Supplementary Figure S1: Identification of major leukocyte populations based on surface marker expression. (A) Manual gating of flow cytometry data on major leukocyte populations. (B) Manual gating strategy of flow cytometry data on Tregs and cytokine-producing CD4+ or CD8+ T cells.

Supplementary Figure 2

Acute Colitis



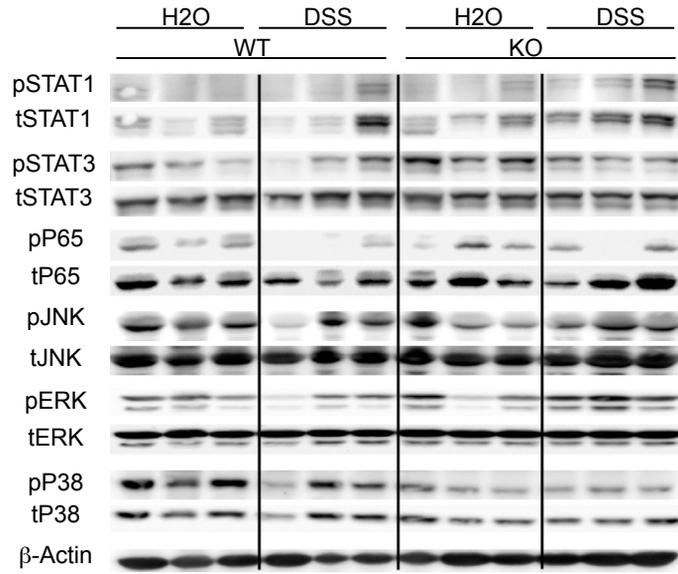
Chronic Colitis



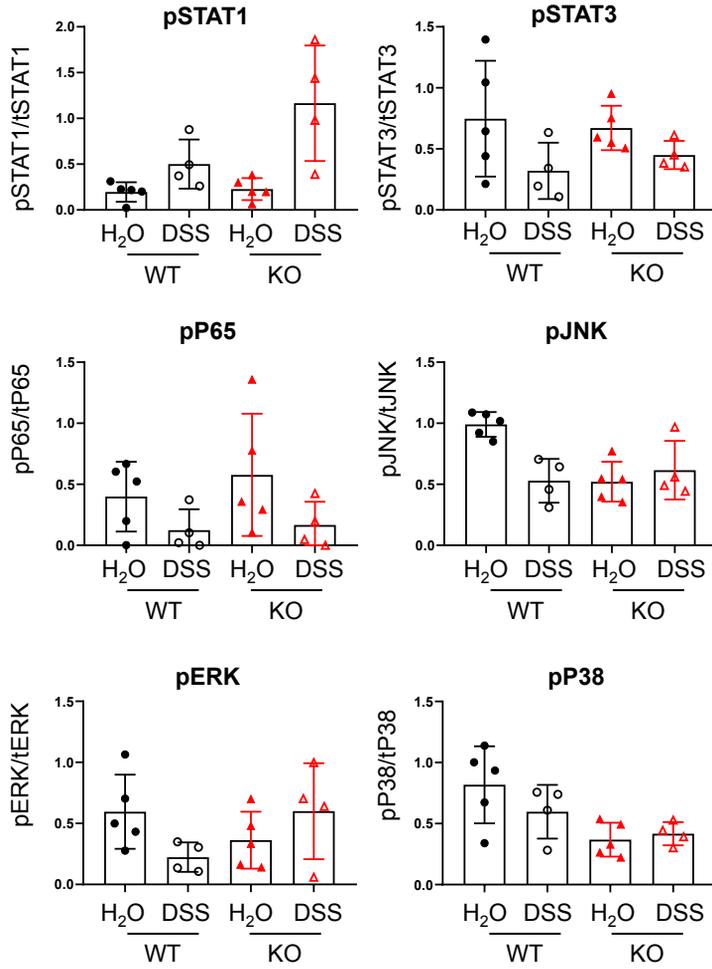
Supplementary Figure 2: Loss of PTPN2 in DCs has no effect on transcription factor and cytokine expression in chronic colitis. RNA was isolated from whole colon pieces of PTPN2^{fl/fl} (WT) and PTPN2^{fl/fl} \times CD11c^{Cre} (KO) mice. (A-C) mRNA expression of the indicated (A) cytokines in acute colitis, (B) Th-cell-associated transcription factors and (C) cytokines and activation markers in chronic colitis. *P<0.05; unpaired Mann Whitney test. Data is representative for one out of two independent experiments with 5 mice per experimental group.

Supplementary Figure 3

A Chronic Colitis

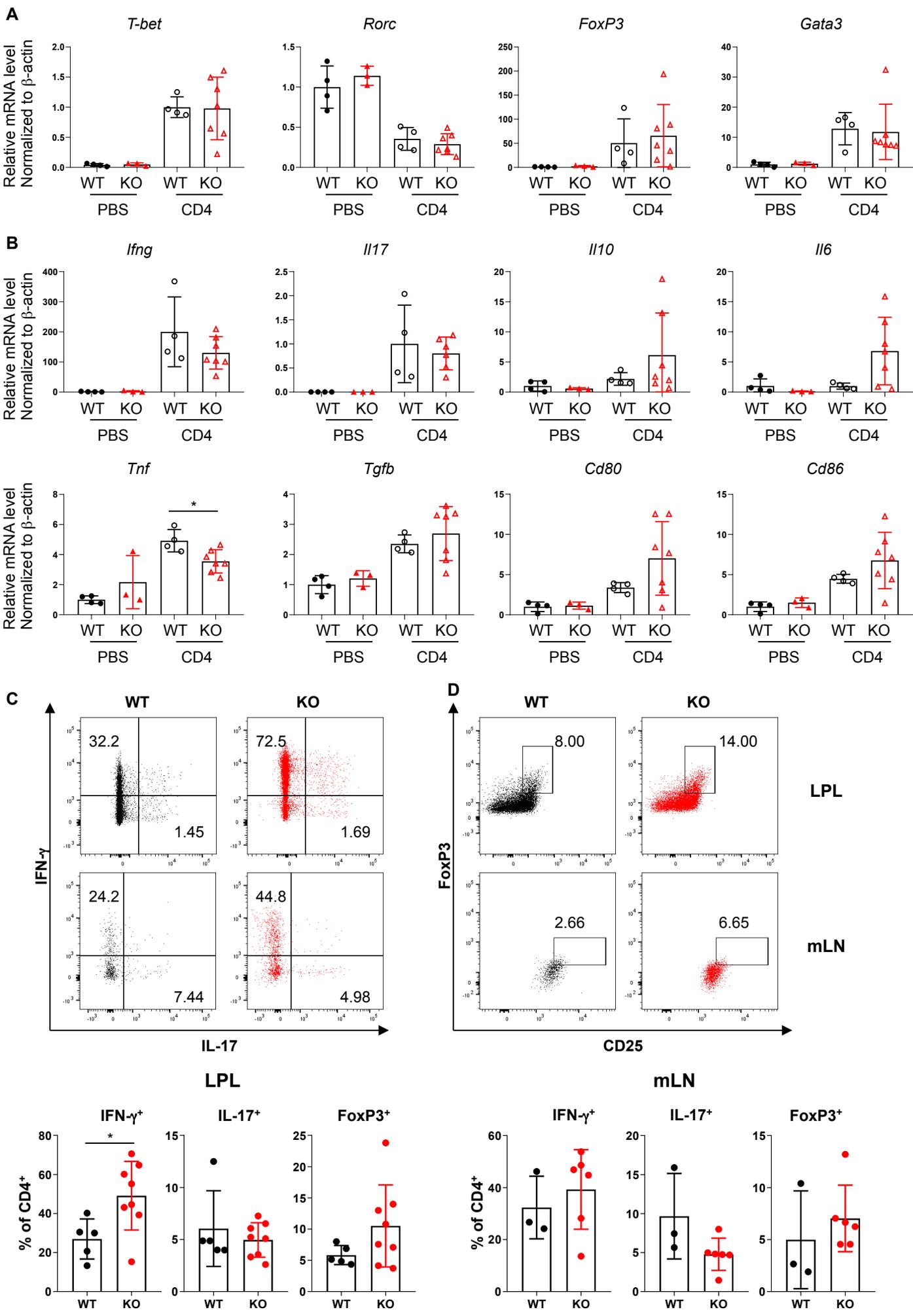


B



Supplementary Figure 3: DC-intrinsic PTPN2 does not regulate phosphorylation levels of PTPN2 targets in chronic colitis. Protein lysates from whole colon pieces of PTPN2^{fl/fl} (WT) and PTPN2^{fl/fl}xCD11c^{Cre} (KO) mice were analyzed by Western blot for the indicated proteins. (A+B) Phosphorylation levels of PTPN2 targets in chronic DSS model. Data is representative for one out of two independent experiments with 5 mice per experimental group.

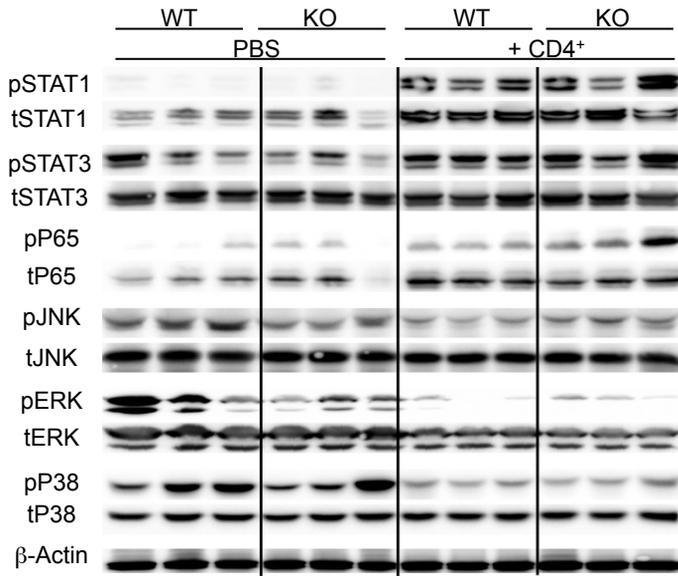
Supplementary Figure 4



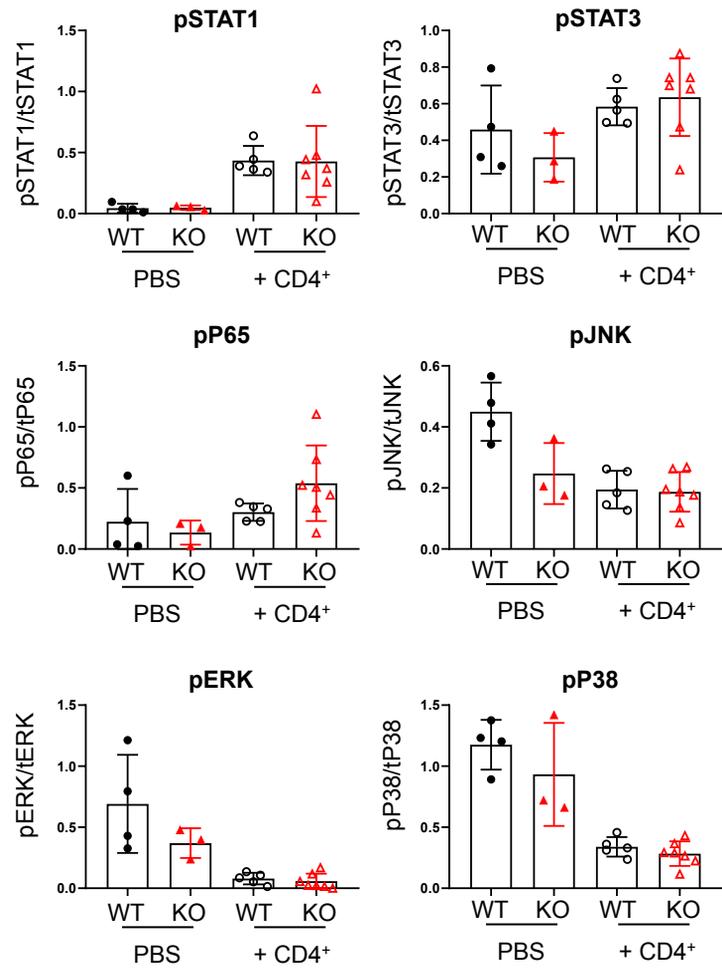
Supplementary Figure 4: Increased Th1 response and Treg induction in PTPN2^{fl/fl}xCD11c^{Cre}xRAG^{-/-} mice in T cell transfer colitis model. PTPN2^{fl/fl}xRAG^{-/-} (WT) and PTPN2^{fl/fl}xCD11c^{Cre}xRAG^{-/-} (KO) mice were injected i.p. with PBS or 2.5x10⁵ naive CD4⁺ T cells. (A and B) mRNA expression of the indicated (A) Th-cell-associated transcription factors, (B) cytokines and activation markers in colon lysates. (C+D) Representative flow cytometry dot plots from lymphocytes isolated from LPL and mLN and stained for (C) IL-17 and IFN γ or (D) CD25 and FoxP3 expression, gated on CD4⁺ T cells. *P<0.05; unpaired Mann Whitney test. Data is representative for one out of two independent experiments with 3-5 mice per experimental group.

Supplementary Figure 5

A Transfer Colitis

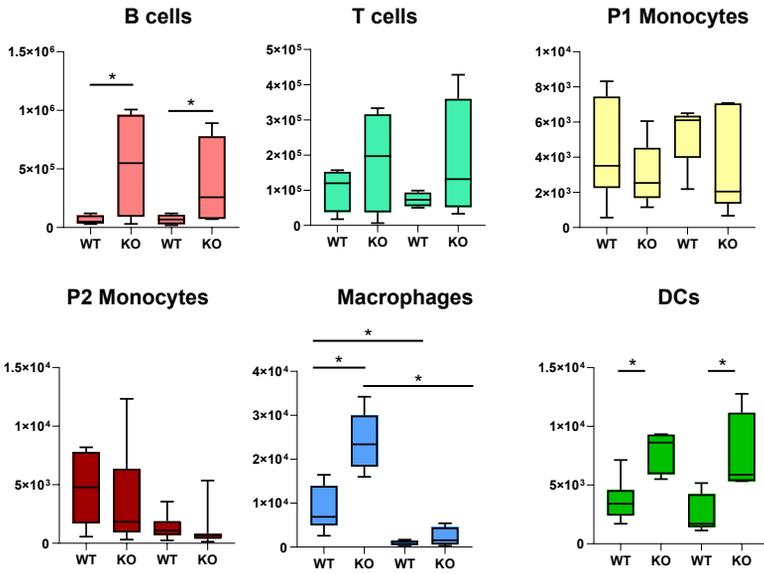


B



Supplementary Figure 5: DC-intrinsic PTPN2 does not regulate phosphorylation levels of PTPN2 targets in T-cell transfer colitis. Protein lysates from whole colon pieces of PTPN2^{fl/fl}xRAG^{-/-} (WT) and PTPN2^{fl/fl}xCD11c^{Cre}xRAG^{-/-} (KO) mice were analyzed by Western blot for the indicated proteins. (A+B) Phosphorylation levels of PTPN2 targets in T-cell transfer colitis model.

Supplementary Figure 6



Supplementary Figure 6: Clodronate mainly depletes macrophages. PTPN2^{fl/fl} (WT) and PTPN2^{fl/fl} × CD11c^{Cre} (KO) mice received 2.5% DSS for 7 days and were treated with vehicle liposomes or clodronate liposomes on day -1, day 2, and day 4 to deplete macrophages. Depicted are total counts of indicated cell populations in the lamina propria. Data is representative for one out of two independent experiments with 3-4 mice per experimental group.