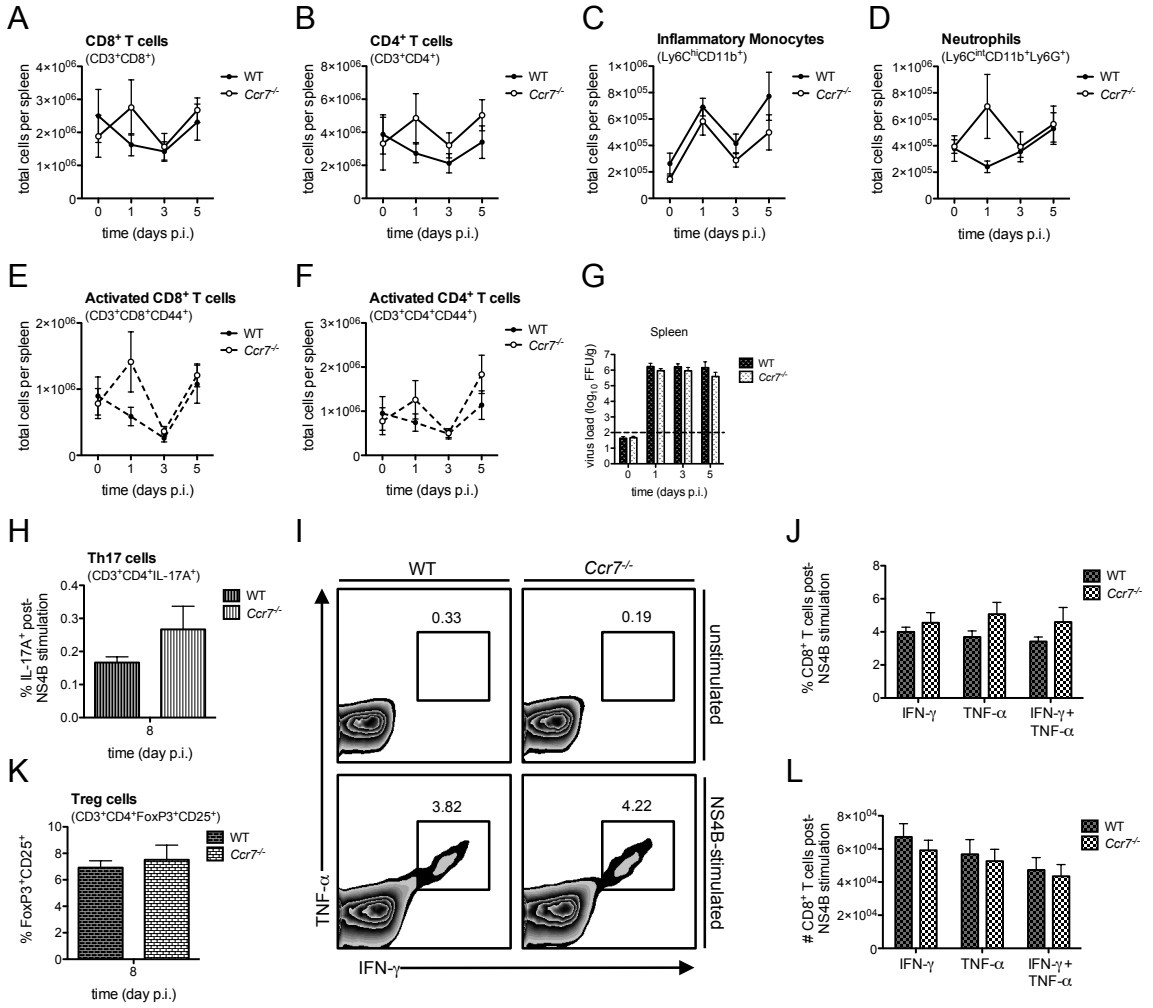
Supplementary Figure S1. Loss of Ccr7 does not impact leukocyte accumulation or T cell priming in the spleen during WNV infection. (**A-F**) Following FSC/SSC and UV^- gating for live cells, total cell numbers of mDC ($MHCII^{hi}CD11c^+$), $CD8^+$ T cells ($CD3^+CD8^+$), $CD4^+$ T cells ($CD3^+CD4^+$), activated $CD8^+$ T cells ($CD3^+CD8^+CD44^+$), and activated $CD4^+$ T cells ($CD3^+CD4^+CD44^+$) were assessed by flow cytometry on days 0, 1, 3, and 5 p.i. from the spleen of WT and *Ccr7*$^{-/-}$ mice. (**G**) Viral load was assessed from the spleen of WT and *Ccr7*$^{-/-}$ mice by an FFU assay. (**H**) The percentage of $CD3^+CD4^+$ T cells expressing IL-17, after stimulation *ex vivo* for 8 hours with an immunodominant Db-restricted WNV NS4B peptide and gating on FSC/SSC and UV^- for live cells, from the spleen of day 8 WNV-infected WT and *Ccr7*$^{-/-}$ mice was assessed by flow cytometry. (**K**) The total number of Treg cells from the spleen of day 8 WNV-infected WT and *Ccr7*$^{-/-}$ mice is shown and were gated on FSC/SSC, UV^- for live cells, $CD3^+CD4^+$, and $FoxP3^+CD25^+$ by flow cytometry analysis. (**I-J and L**) Splenocytes from day 8 WNV-infected WT and *Ccr7*$^{-/-}$ mice were stimulated *ex vivo* for 8 hours with an immunodominant D^b-restricted WNV NS4B peptide and intracellular cytokine expression of IFN-γ and/or TNF-α was assessed by flow cytometry analysis with the dot plots, percentages, and total numbers shown. Gating strategy: FSC/SSC $UV^-CD3^+CD8^+$ followed by IFN-γ and/or TNF-α expression. Data are shown as mean ±SD for n=3-9 mice per genotype and time point from two independent experiments.



Supplementary Figure S2. Cytokines are elevated in the CNS of Ccr7-deficient mice. (**A-H**) Protein levels of IL-1β, IL-12, IL-22, Ccl3, Ccl4, Ccl5, Ccl2, and Ccl7 in the CNS of WT and *Ccr7*$^{-/-}$ mice at days 0, 8, 10, and 12 p.i. were measured by multiplex ELISA. Data are shown as mean ±SD for n=3-9 mice per genotype and time point from two independent experiments. *, P < 0.05 and ***, P < 0.001.