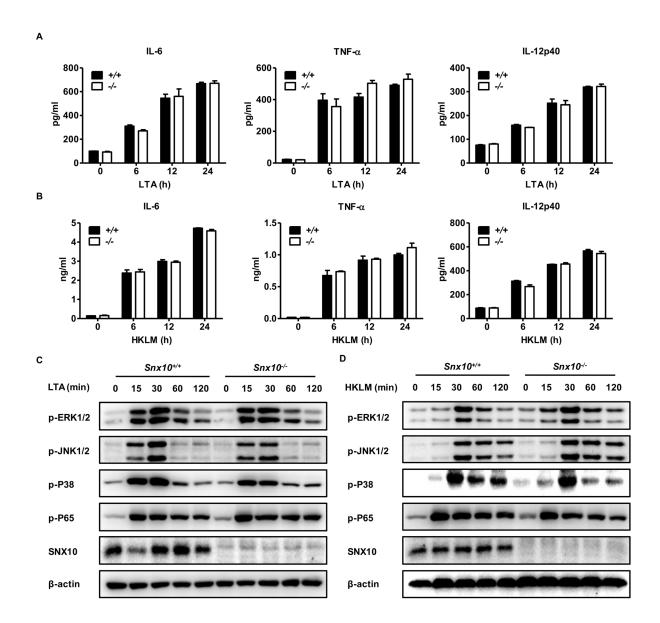
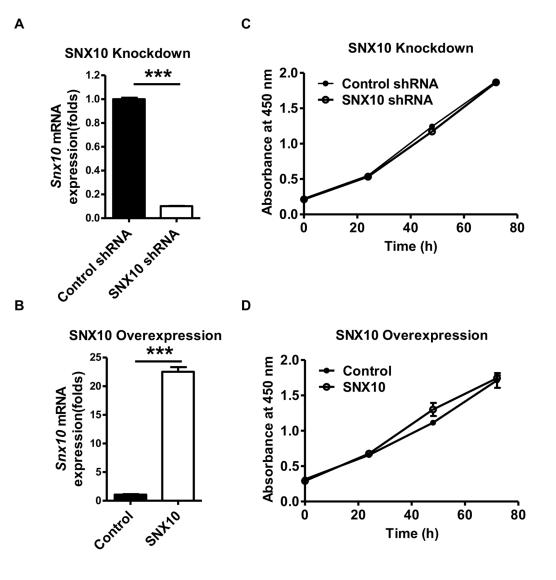
SNX10 promotes phagosome maturation in macrophages and protects mice against *Listeria monocytogenes* infection

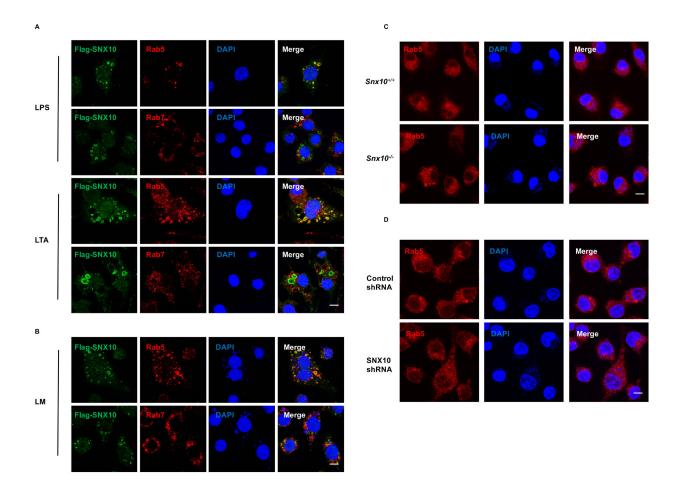
SUPPLEMENTARY MATERIALS



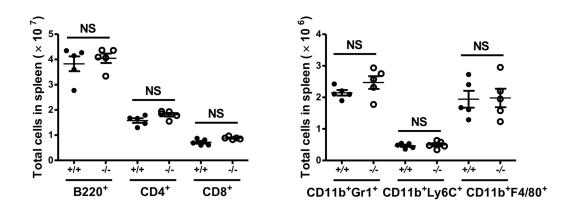
Supplementary Figure 1: Loss of SNX10 does not affect TLR signaling pathways and cytokine production. (A, B) ELISA of TNF- α , IL-6 and IL-12p40 in the supernatant of WT or $Snx10^{-7}$ BMDMs after LTA (2 µg/mL) stimulation or HKLM (MOI, 20) infection for the indicated time. (C, D) Immunoblot analysis of phosphorylated (p-) ERK, JNK, P38 and P65 in lysates of WT or $Snx10^{-7}$ BMDMs after LTA (2 µg/mL) stimulation or HKLM (MOI, 20) infection for the indicated time, with β -actin as a loading control. Data are representative of three independent experiments with similar results.



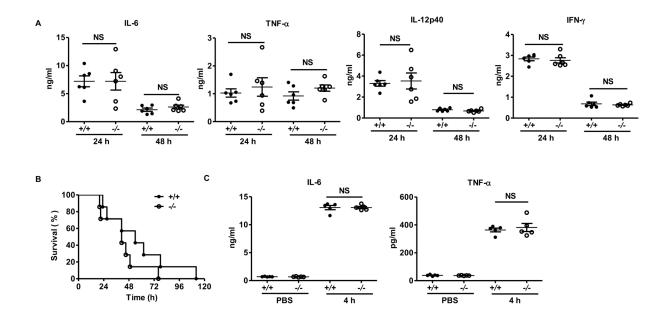
Supplementary Figure 2: SNX10 does not affect the proliferation of macrophage. (**A**, **B**) Detection of SNX10 level in RAW264.7 cells stably expressing control and SNX10 shRNA (A), or stably expressing control and SNX10 (B) by Q-PCR analysis, ***P<0.001. (**C**, **D**) Cell proliferation assay of RAW264.7 cells stably expressing control and SNX10 shRNA (C), or stably expressing control and SNX10 shRNA (C).



Supplementary Figure 3: Absence of SNX10 does not affect early endosomes and phagosomes. (A, B) Confocal images showing the co-localization of Flag-SNX10 (Green) with Rab5, Rab7 (Red) in RAW264.7 cells stably expressing Flag-SNX10 under LPS (1 μ g/mL) or LTA stimulation (2 μ g/mL) (A) or *L. monocytogenes* (LM) infection (MOI, 20) (B) for 3 h. Co-localization of the two colors is depicted by yellow in the images. (C, D) Confocal images showing the early endosomes or phagosomes (Rab5-positive) in WT and *Snx10^{-/-/-}* BMDMs (C) or RAW264.7 cells stably expressing control or SNX10 shRNA (D) after infection with *L. monocytogenes* (MOI, 20) for 3 h. Scale bars represent 10 μ m. Data are representative of three independent experiments with similar results.



Supplementary Figure 4: There are similar numbers of immune cells in WT and Snx10^{-/-} mice after injection with PBS. Different cell types were counted in WT and *Snx10^{-/-}* mice after intravenous injection with PBS for 72 h. NS, no significance. Data are representative of three independent experiments with similar results.



Supplementary Figure 5: SNX10 deficiency has no effect on the production of cytokines after infection *in vivo*. (A) ELISA of TNF- α , IL-6, IFN- γ , and IL12p40 in serum collected at 24 or 48 h after intravenous injection with $2 \times 10^5 L$. *monocytogenes*; (B) Survival of WT and *Snx10^{-/-}* mice after intraperitoneal injection with LPS (15 mg/kg body weight) and monitored every hour after infection, n=7 mice per genotype; (C) ELISA of TNF- α and IL-6 in serum collected at 4 h after intraperitoneal injection with PBS or LPS as B, each symbol represents an individual mouse. NS, no significance. Data are representative of three independent experiments with similar results.