



Figure S1

A-C), WT mice were treated with IgG or neutralizing anti-IFN- γ antibody and footpad infected with 1×10^5 *B. melitensis* 16M. Mice were euthanized at 7 days post-infection. Flow cytometry was conducted on joints from infected mice and on naïve animals as a control. Depicted are histograms of CD11b⁺ cells from individual mice **A)**, and bar graphs indicating the mean number of neutrophils (CD45.2⁺/CD11b⁺/Ly-6G⁺) or macrophages CD45.2⁺/CD11b⁺/F4/80⁺) in each group (n=4-5) **B)**. Means with the same letter are not statistically different from each other as determined by ANOVA followed by Tukey's test. **C)** IL-1 β levels were measured in joint homogenates from wild-type mice (n=4/group) treated with IgG or anti-IFN- γ 7 days after footpad infection. *P<0.05 as compared to IgG treated mice. **D)** IFN- γ levels were measured in joint homogenates from IgG-treated WT or Rag1^{-/-} mice (n=4/group) 7 days after footpad infection.

E-G, I,J), WT mice (n=4/5group) were treated with vehicle or 0.5 mg of anti-TCR $\gamma\delta$ (clone UC7-13D5), or anti-NK1.1 (clone PK136) on days -1 and 3 in relation to footpad infection with 1×10^5 *B. melitensis*. Joint swelling was assayed **E)**. At 7 days post-infection, joint CFUs and IFN- γ levels were determined **F-G)**, and flow cytometry was performed to confirm depletion of $\gamma\delta$ T cell and NK cells **I-J)**. $\gamma\delta$ T cell depletion was confirmed by assaying TCR $\gamma\delta$ expression after gating on splenic T cells (CD45.2⁺/CD3⁺), representative plots are shown in **I)**. NK cell depletion was confirmed by assaying NK1.1 expression after gating on CD45.2⁺/CD3⁻ cells within infected mouse joints, representative plots are shown in **J)**. (Confirmation of $\gamma\delta$ T cell depletion was determined via flow cytometry on spleens as $\gamma\delta$ T cells were not detected in IgG-treated joints).

H,K), Rag1^{-/-} mice (n=5/group) were treated with anti-NK1.1 or anti-CD90. On day 7 post-infection RNA was extracted from joints and *iNOS* mRNA expression relative to *GAPDH* was determined **H)** and flow cytometry was performed to confirm depletion of NK cells and innate lymphoid cells **K)**. Expression of NK1.1 and CD90 was assayed after cells were gated as CD45⁺/Ly6G⁺/F4/80⁺/CD11b⁻. Representative plots are shown in **K)**. *P<0.05 as compared to Rag1^{-/-} mice treated with anti-NK1.1 in **H)**. All error bars depict SD.