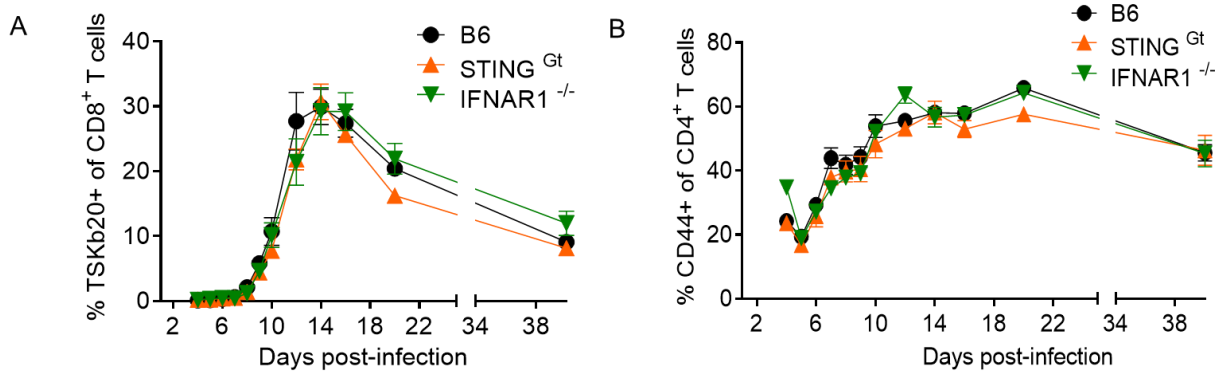
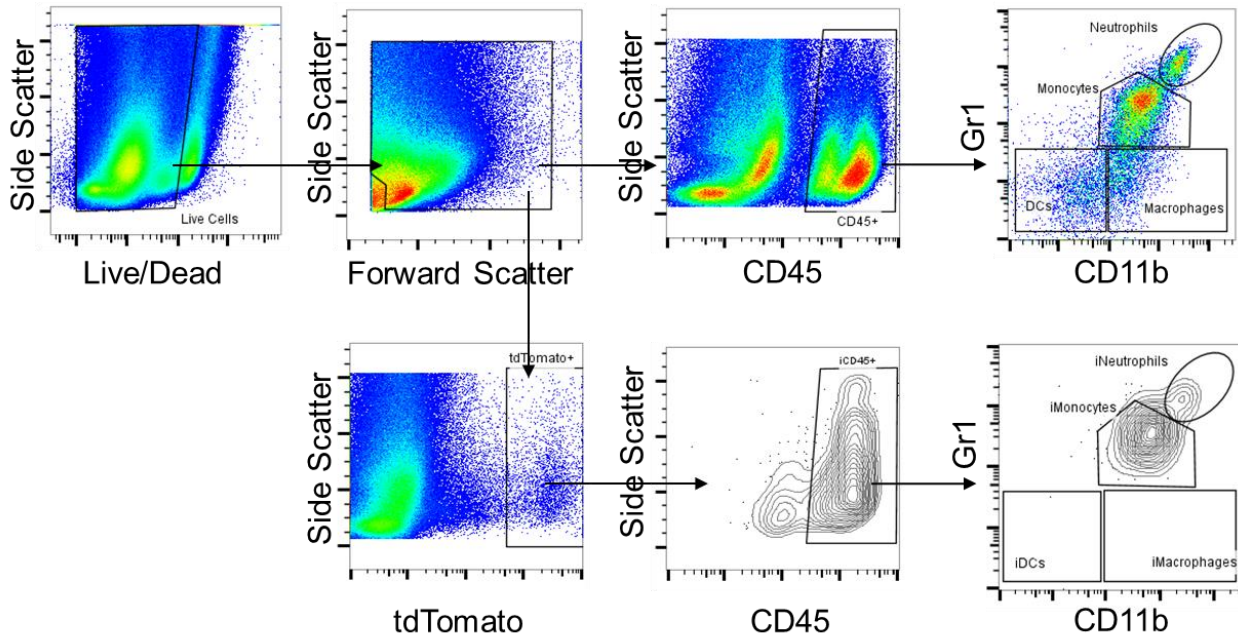


Supplemental Figure 1: *T. cruzi* activates the cGAS-STING pathway in primary cells to induce a modest IFN-I response without active suppression. A) Infrequent occurrence of HeLa host cells showing small puncta at 6h post *T. cruzi* infection compared to larger puncta following DNA transfection. B) Raw-Lucia-ISG macrophage cells were treated with IFNAR mAb MAR1-5A3 (7.5ug/ml), stimulated with increasing concentrations of IFN β , and quantified Lucia-luciferase activity in the supernatant 24h post-stimulation to assess the effective blocking of IFNAR1. C-D) IRF reporter expression in uninfected or infected macrophages costimulated or not with DNA (C) or 2'3'-cGAMP (D) were assessed by measuring Lucia-luciferase activity in the supernatant 24h post-stimulation. Data are representative of 2 or more independent experiments with n=3 infection replicates.



Supplemental Figure 2: The timing and frequency of anti- *T. cruzi* T cell responses do not vary significantly in the STING and IFNAR1 -deficient mice relative to WT mice.

A) Kinetics of *T. cruzi* specific CD8⁺ T cells in B6, STING^{Gt} and IFNAR1^{-/-} infected in the feet and determined by staining of peripheral blood for specific binding of MHC-I tetramers containing the *T. cruzi* trans-sialidase TSKB20 peptide. B) Kinetics of activated CD4⁺ T cells in B6, STING^{Gt} and IFNAR1^{-/-} infected in the feet and determined by staining of peripheral blood for activation marker CD44. Data represent n>3 mice; 2 independent experiments.



Supplemental Figure 3. Gating strategy for phenotyping the various leukocyte populations recruited to the ear. Live cells (Live/Dead Aqua-) that were gated or not on infected (tdTomato+) cells, were gated on CD45+ cells, followed by CD11b and Gr-1 to distinguish neutrophils, monocytes, macrophages and dendritic cells (DCs).

