Supplemental Data 8: Rg4 CD8+ T cells mediate protection and are primed in the lungs of Mtb infected mice

A. Protection mediated by $10^6$, $10^5$ or $10^4$ in vitro activated Rg4 (e.g., TCR4) CD8+ T cells. T cells were transferred by the IV route into sublethally irradiated mice and challenged with Mtb. CFU were determined ~4 wks after infection. Protection ($\Delta\log_{10}$) is the lung CFU in mice that did not receive Rg T cells minus the lung CFU in mice that did receive Rg T cells. Two independent experiments are shown each with 5 mice. One way ANOVA with Tukey’s post test to compare differences in CFU. *, $p<0.05$; ***, $p<0.001$.

B. The level of TCR$\alpha$ staining on Rg3 vs. Rg4 CD8+ T cells from the lungs of infected mice. T test showed the difference was not significant.

C. Priming of naïve Rg4 and Rg3 CD8+ T cells in the pulmonary LN of Mtb infected mice occurs with similar kinetics. Rg3 and Rg4 CD8+ T cells were co-transferred or Rg3 CD8+ T cells were transferred alone. Priming is indicated by acquisition of an activated (CD44$^{+}$CD62L$^{lo}$) phenotype.