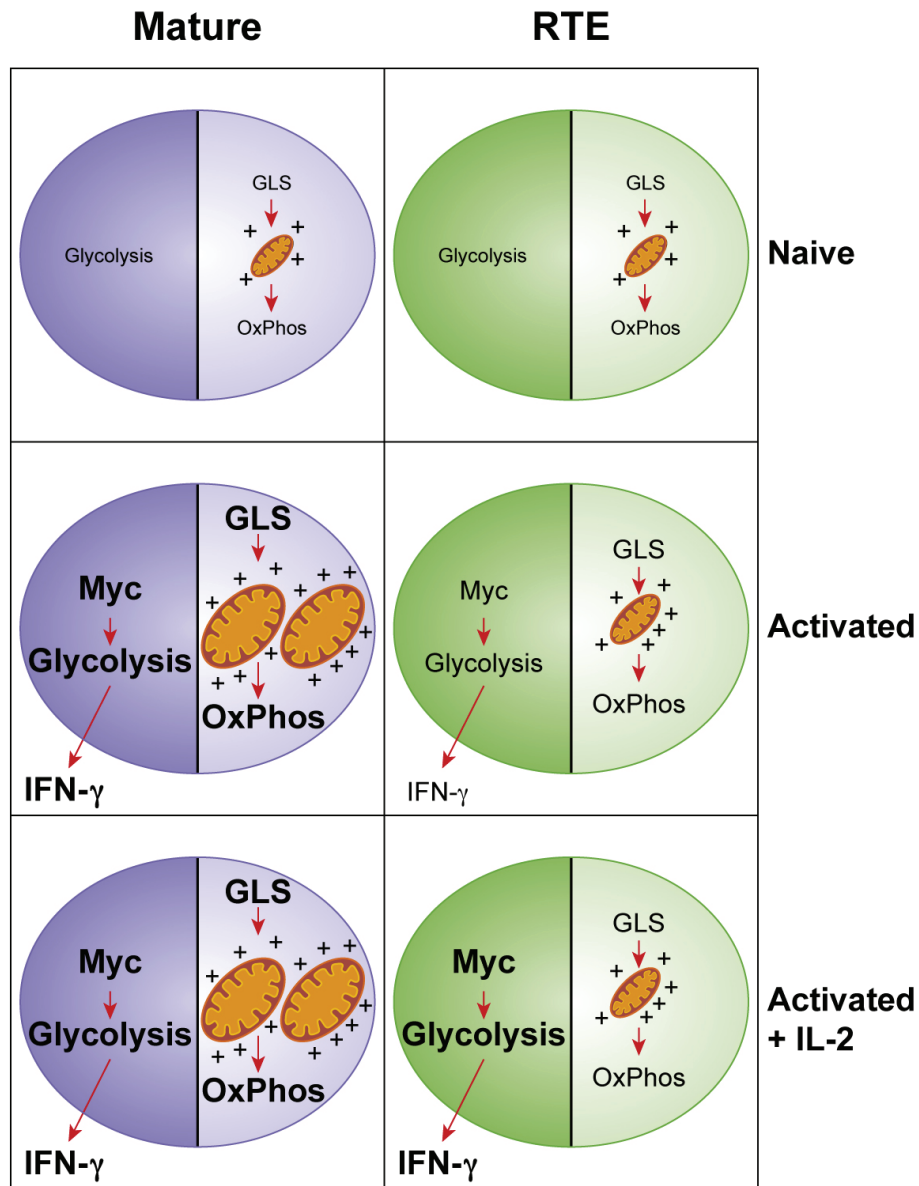


Supplemental Figure 1. Cpt1a and 4-1BB signaling are dispensable for the mitochondrial phenotype of RTEs (A) Sort-purified CD8⁺ RTEs and MN T cells were freshly isolated (non-stim) or stimulated with Ag \pm IL-2 in vitro for 3 days and the expression level of intracellular Cpt1a (A), p-p38 (B), and p-NF- κ B (C) determined; representative histograms are shown on the left. The bar graphs on the right depict the average MFI \pm SD from 3 independent experiments. (D) RTEs and MN T cells left unstimulated or activated in the presence of α -4-1BBL or an isotype control (both at 10 μ g/mL) and VDAC1 levels determined; representative histograms are shown on the left. The bar graphs on the right depict the average MFI \pm SD from 3 independent experiments. *p < 0.05 ** p < 0.01 by paired Student *t* test.



Supplemental Figure 2. Altered metabolism in antigen-activated RTEs. Resting RTEs and mature T cells have similar metabolic profiles (top panels). However, upon activation in the absence of exogenous IL-2 (middle panels), RTEs display defective aerobic glycolysis and glutamine-fueled OxPhos relative to mature T cells. When RTEs are activated in the presence of exogenous IL-2 (bottom panels), aerobic glycolysis (and thus IFN- γ production) is restored. However, IL-2 fails to restore GLS expression and mitochondrial mass accumulation in RTEs.