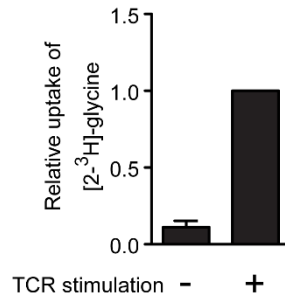


**Supplemental Figure 2.** Deletion of STIM2 does not abrogate IMPDH filament assembly. (A) Immunofluorescence images of splenic T cells isolated from *STIM2<sup>fl/fl</sup>/Cd4-Cre* mice that were either left alone or stimulated *ex vivo* and immunostained as in Figure 1. Scale bars correspond to 5  $\mu$ m. (B) Quantification of the proportion of cells containing IMPDH filaments from three biological replicates consisting of 100 cells each. Error bars indicate standard error. (C) Western blot of IMPDH protein expression. GAPDH was used as a loading control. This result is representative of three independent experiments.



**Supplemental Figure 3.** Uptake of exogenous glycine is increased upon TCR stimulation. Wild type splenic T cells were isolated and either stimulated or left alone (as in Figure 1) and then [2-<sup>3</sup>H]-glycine was added for one hour. Cells were then washed to remove excess glycine remaining in the media and uptake was assessed using a liquid scintillation counter. Uptake values are plotted relative to that of stimulated T cells and error bars represent standard error. Two technical replicates were performed.

