

Figure S2. Circulating platelets, red blood cell levels, tissue chemokine production, and the role of neutrophils and NK cell responses in *Ifitm3*-/- mice. Platelet (A) and red blood cell (B) levels were quantified over a 4-day time-course of MCMV infection in WT and *Ifitm3*-/- mice. Mean +/- SEM of 6-9 mice/group is shown. (C) Chemokine protein in spleen homogenates of WT and *Ifitm3*-/- mice was measured 4 days pi. Mean + SEM of 8-9 mice/group is shown. (D) Weight loss in WT and *Ifitm3*-/- mice +/- neutrophil depletion. Mean +/- SEM of 3-6 mice is shown. (E) Virus titers in spleens 4 days after infection with K181 or delta-m157 MCMV. Individual mice and medians are shown.

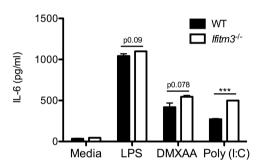


Figure S3. IL-6 production by  $\mathit{Ifitm3}^{-1}$  DCs following TLR4 and STING activation. WT and  $\mathit{Ifitm3}^{-1}$  DCs were stimulated with 1µg/ml LPS or 100µg/ml DMXAA, and IL-6 production was measured by ELISA after 24hrs. Mean + SEM of biological triplicates in shown and one of two experiment is shown.

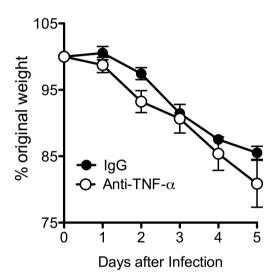


Figure S4. TNF-α neutralization does not impact on MCMV-induced weight loss in *Ifitm3*<sup>-/-</sup> mice. *Ifitm3*<sup>-/-</sup> mice (n=5/group) were infected with MCMV and treated with anti-TNF-α or isotype control, and weight loss was assessed. Mean +/- SEM of % original weight is shown. 1 of 2 experiments is depicted.

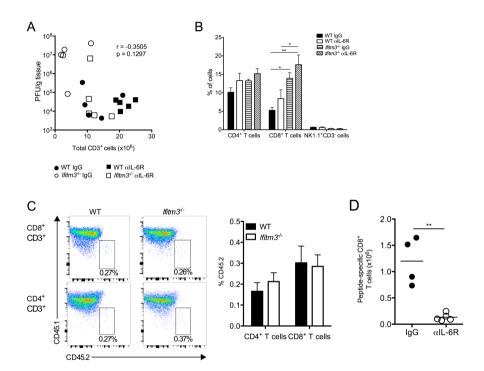


Figure S5. IL-6R is required for the generation of virus-specific T cell responses. (A) WT and Ifitm3<sup>-/-</sup> mice were treated with IgG or anti-IL-6R. After 4 days the correlation between CD3<sup>+</sup> cells and virus PFU in the spleen was assessed. (B) % values of splenic CD4<sup>+</sup>, CD8<sup>+</sup> and NK1.1<sup>+</sup> cells from WT and Ifitm3<sup>-/-</sup> mice 7 days pi following treatment with IgG or anti-IL-6R. Mean + SEM from 4-5 mice/group is shown from 1 of 2 experiments. (C) Accumulation of CD45.2 WT and Ifitm3<sup>-/-</sup> CD4<sup>+</sup> and CD8<sup>+</sup> T cells 7 days after infection of recipient CD45.1 mice. Data is shown as representative bivariant FACS plots (left) or mean + SEM of 6 (WT) or 4 (Ifitm3<sup>-/-</sup>) mice/group. (D) WT mice were treated with IgG or anti-IL-6R and splenic virus-specific CD8<sup>+</sup> T cells were assessed by IFN-y detection after stimulation with peptide. Individual mice + mean is shown from 1 of 2 experiments.