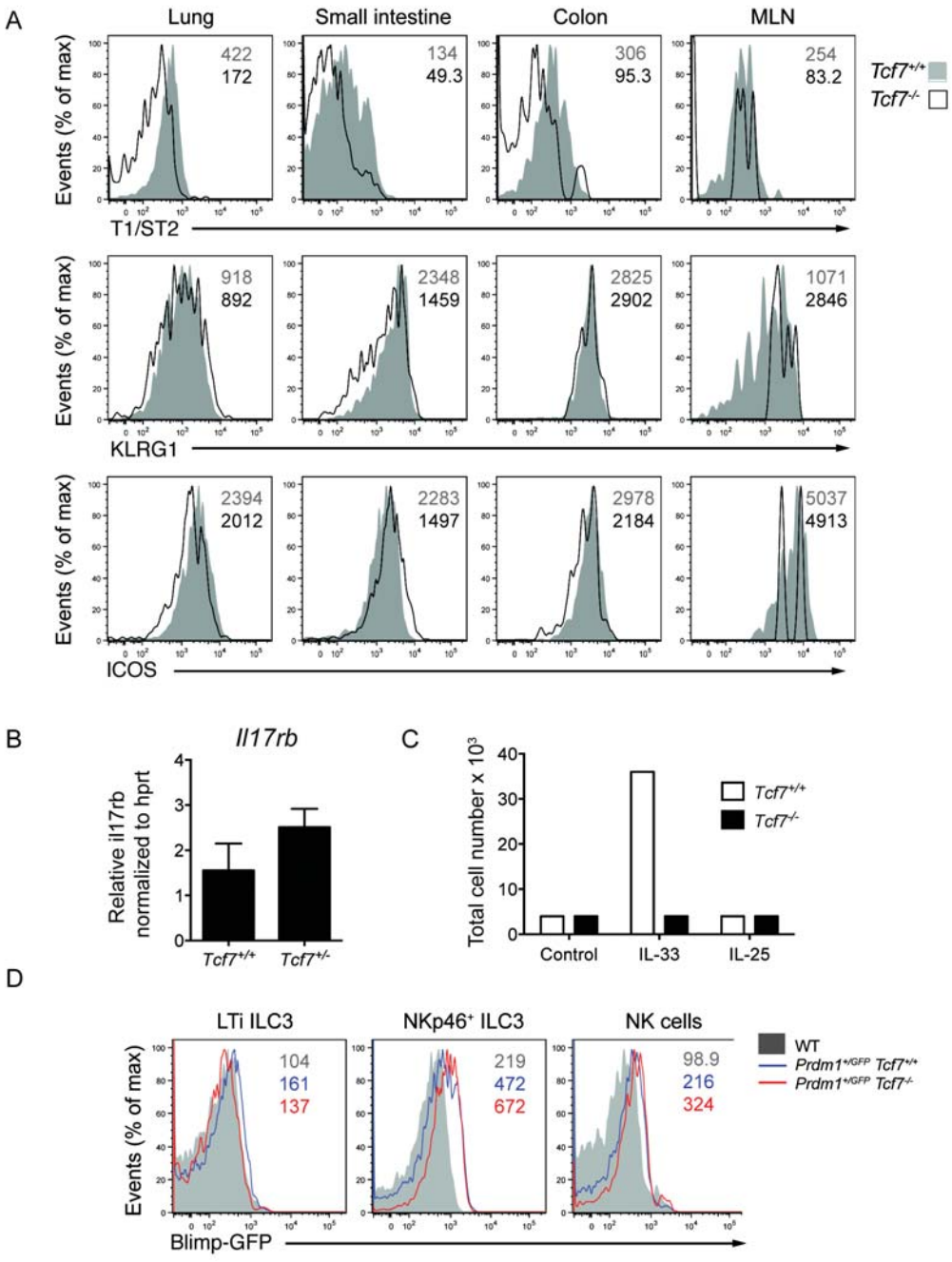
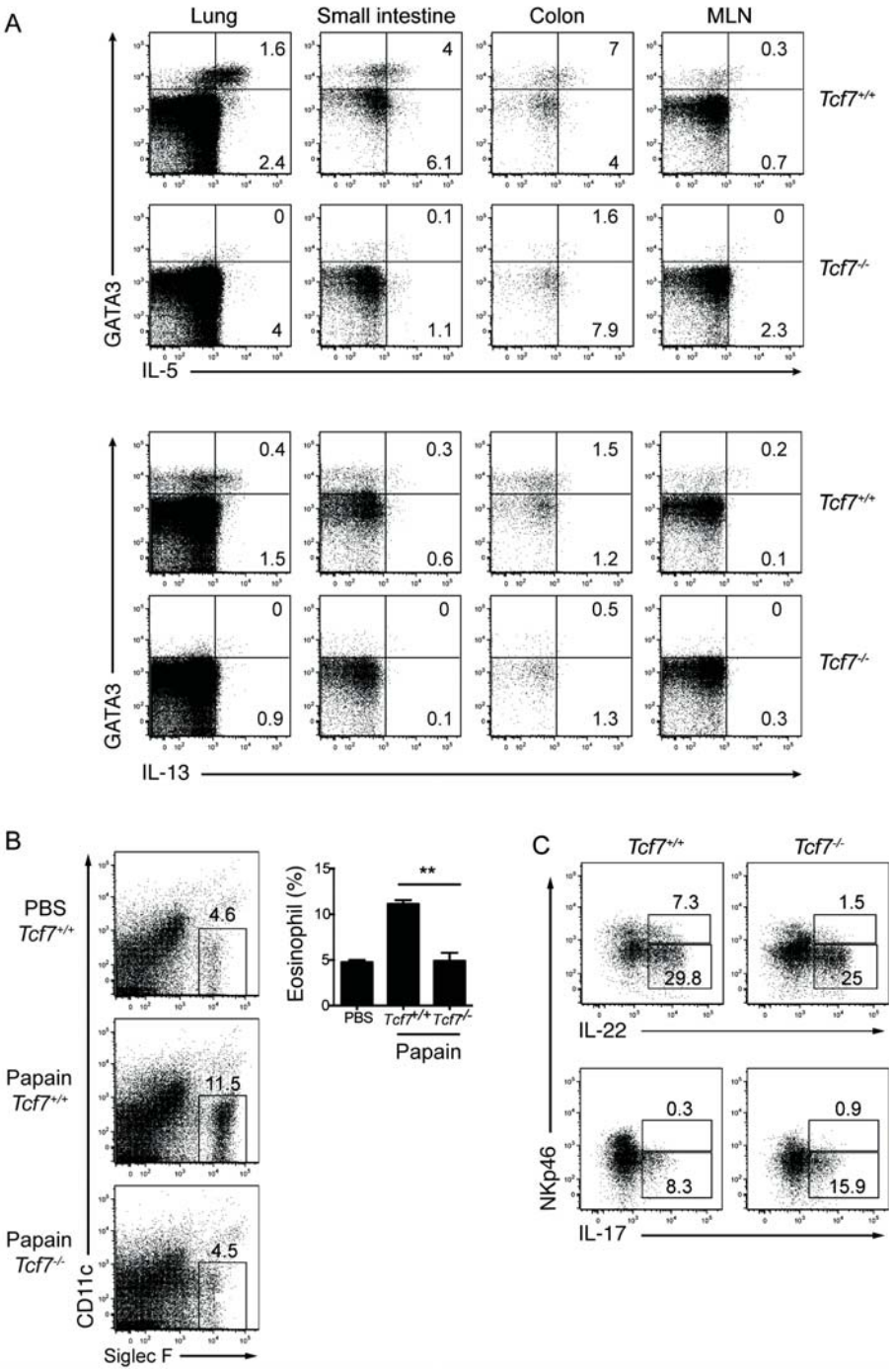
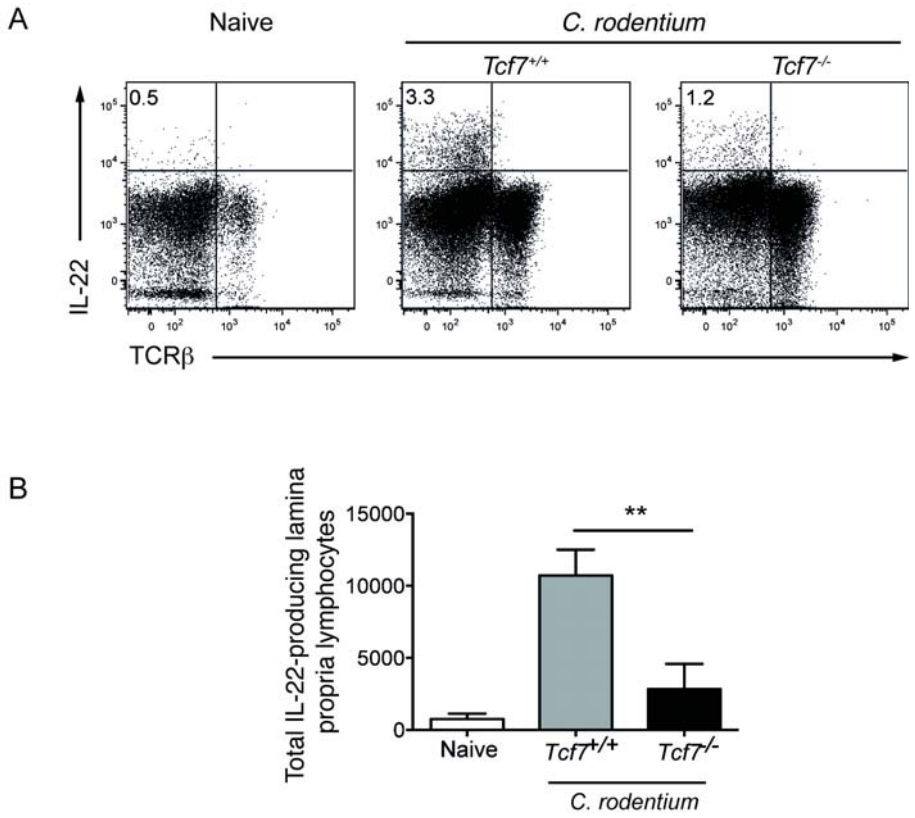


Supplemental Fig. 1. Cell surface receptor and transcription factor analysis of ILC populations.

(**A**) Expression of the cell surface receptors ST2, KLRG1 and ICOS on ILC2 ($CD45^{+}CD3^{-}CD19^{-}GATA3^{+}$) isolated from indicated organs from wild-type (shaded histogram) or TCF1-deficient (unshaded histogram) mice. (**B**) Expression of *Il17rb* from $Tcf7^{+/+}$ or $Tcf7^{+/-}$ ILC2 isolated from the small intestine. (**C**) Total ILC2 following in vitro culture of small intestinal ILC2 with IL-33 (10 ng/ml) or IL-25 (10 ng/ml) for 7 days. (**D**) Blimp-GFP expression in ILC subsets isolated from the small intestine of wild-type ($Prdm1^{+/+}Tcf7^{+/+}$), Blimp-GFP ($Prdm1^{+/gfp}Tcf7^{+/+}$) or Blimp-GFP TCF-deficient ($Prdm1^{+/gfp}Tcf7^{-/-}$) mice. (**A, B**) Histograms are representative of three independent experiments with a total of 6 mice/genotype.



Supplemental Fig. 2. TCF-1 controls ILC cytokine production. (**A**) Analysis of intracellular IL-5, IL-13 cytokine production and GATA3 expression in lineage$^-$ ($CD45^+CD3^-CD19^-$) cells isolated from lung, small intestine and colon lamina propria and MLN from wild-type (*Tcf7*$^{+/+}$) or TCF1-deficient (*Tcf7*$^{-/-}$) mice following *in vitro* stimulation with PMA and ionomycin. (**B**) Lung eosinophil frequencies following intranasal papain treatment of *Tcf7*$^{+/+}$ or *Tcf7*$^{-/-}$ mice (n=3, **p<0.01). (**C**) IL-23-driven IL-22 (upper panel) or IL-17 (lower panel) production in lin$^-$RORγt$^+$ cells isolated from the lamina propria of *Tcf7*$^{+/+}$ or *Tcf7*$^{-/-}$ mice. (**A, C**) Dot plots are representative of three independent experiments (n=6 mice/group).



Supplemental Fig. 3. TCF-1 controls IL-22 production in response to *C. rodentium* infection. (A) Frequency and (**B**) total number of IL-22-producing lymphocytes in the small intestine of *Tcf7*$^{+/+}$ or *Tcf7*$^{-/-}$ mice following infection with *C. rodentium*. Data are pooled from two independent experiments with a total of 6 mice/genotype, **p<0.01.