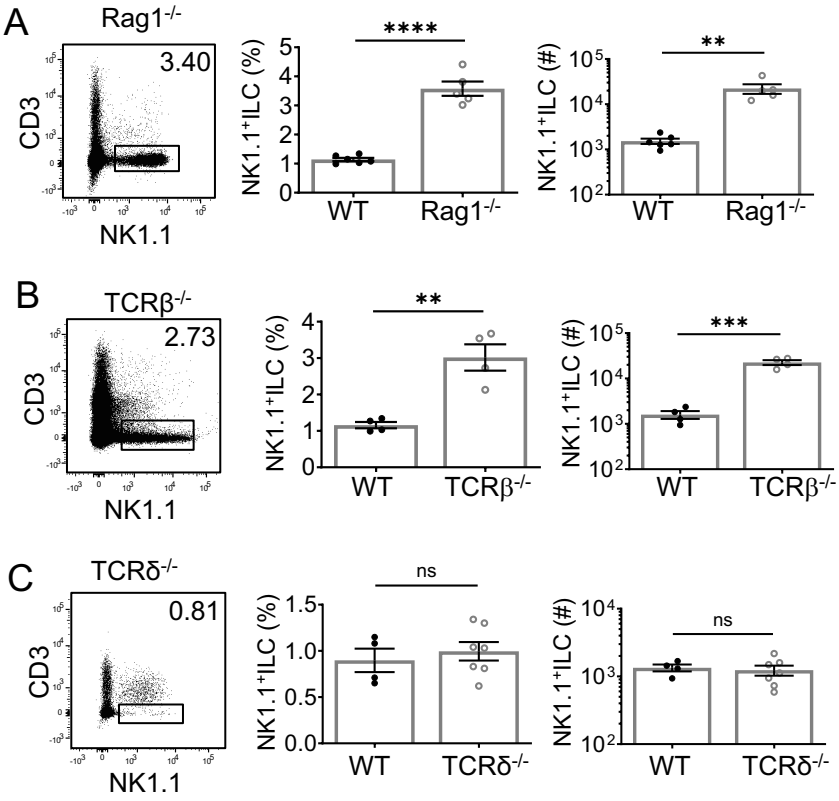
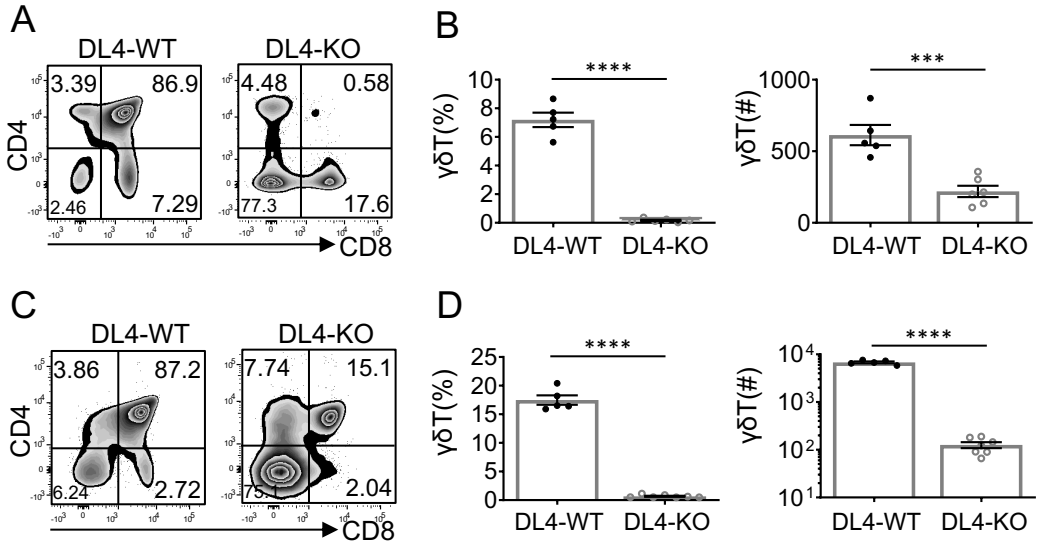
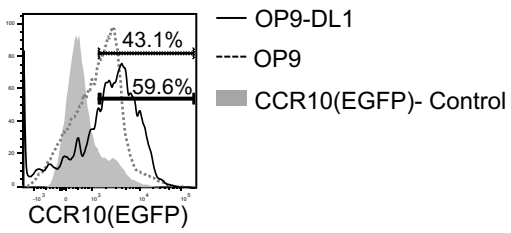
SUPPLEMENTAL DATA



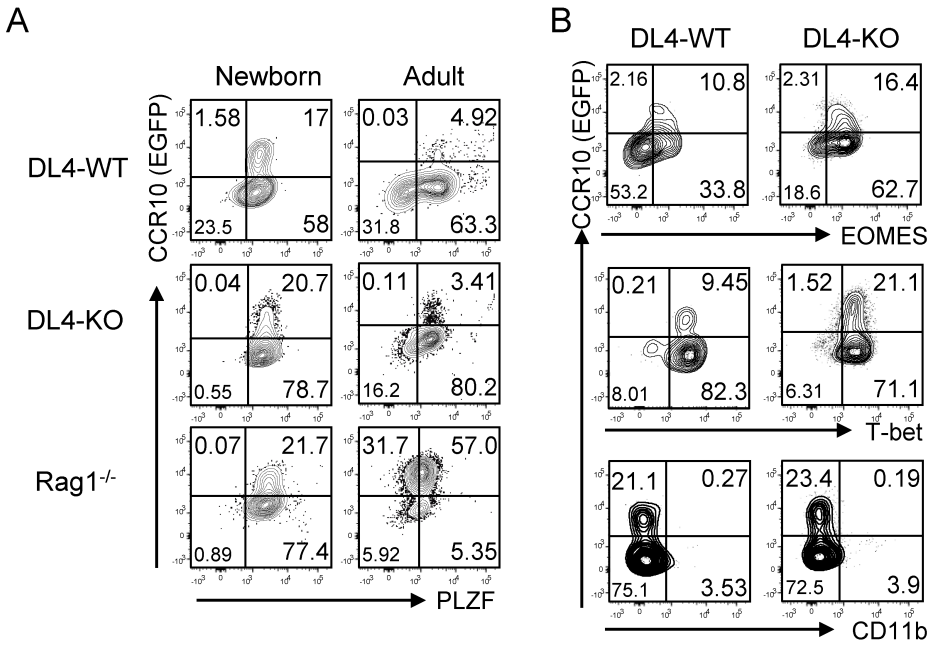
Supplemental Figure 1. Presence of T cells suppresses generation of CCR10$^+$ NK1.1$^+$ ILC1s in adult thymi. A, B, C) Flow cytometric (FC) analysis of CD3$^-$NK1.1$^+$ cells in thymocytes of adult Rag1$^{-/-}$CCR10$^{+/EGFP}$ (A), TCRβ$^{-/-}$CCR10$^{+/EGFP}$ (B) and TCRδ$^{-/-}$CCR10$^{+/EGFP}$ (C) mice. Average percentages and number of CD3$^-$NK1.1$^+$ thymocytes were showed in bar graphs in comparison to their WT controls. CD3$^-$NK1.1$^+$ cells are gated from CD4$^-$CD8$^-$ thymocytes. Results are representative of two or three independent experiments. ns = not significant, **p < 0.01, ***p < 0.001, ****p < 0.0001 as determined by two-tailed Student's t test.



Supplemental Figure 2. Impaired αβT and γδT cell differentiation in DL4-KO thymi. A) FC analysis of thymocytes for expression of CD4 and CD8 in adult DL4-WT ($DL4^{f/f}$ $CCR10^{+/EGFP}$) and DL4-KO ($FoxN1^{Cre}DL4^{f/f}CCR10^{+/EGFP}$) mice. **B)** Comparison of the percentage and number of thymic γδT cells in adult DL4-WT and DL4-KO mice. C) FC analysis of thymocytes for expression of CD4 and CD8 in newborn adult DL4-WT and DL4-KO mice. D) Comparison of the percentage and number of thymic γδT cells in newborn DL4-WT and DL4-KO mice. Results are of three independent experiments. ns = not significant and *$p < 0.05$, ***$p < 0.001$, ****$p < 0.0001$ as determined by two-tailed Student's t test.



Supplemental Figure 3. Differentiation of CCR10$^-$ CD3$^-$ NK1.1$^+$ thymocytes into CCR10$^+$ CD3$^-$ NK1.1$^+$ cells in the OP9-DL1 culture. FC analysis of the expression of CCR10(EGFP) on gated CD45$^+$CD3$^-$NK1.1$^+$ cells generated from the *in vitro* co-culture of purified CCR10(EGFP)$^-$ CD3$^-$CD4$^-$CD8$^-$ NK1.1$^+$ thymocytes with OP9 (dotted line) or OP9-DL1 (solid line) cells for 19 days. The CCR10(EGFP) histogram of CCR10$^{+/+}$ cells (gray area) serves as a negative control for EGFP. Representative of three experiments.



Supplemental Figure 4. Analysis of CD103 and PLZF expression on CCR10^{-} and CCR10^{+} thymic NK1.1^{+} ILC1s of DL4-KO mice. A) Comparison of the PLZF expression on CCR10^{-} and CCR10^{+} CD3^{-}NK1.1^{+} thymocytes in adult and newborn DL4-WT (DL4$^{f/f}$ CCR10$^{+/EGFP}$), DL4-KO (Foxn1^{Cre}DL4$^{f/f}$ CCR10$^{+/EGFP}$) and Rag1$^{-/-}$CCR10$^{+/EGFP}$ mice. **B)** FC analysis of expression of EOMES, T-bet and CD11b in thymic NK1.1^{+} ILC1s of newborn DL4-WT and DL4-KO mice.