Supplemental Figure 1: Scatter plots for isotype antibodies controls for flow cytometric analyses of ILC2 (**A**, left) and *Th2* cells (**A**, right) in Figure 1. Total counts for *Th1/Th2* hybrid (CD3$^+$CD4$^+$IL4$^+$ IFNγ^+) cells (**B**, left) in analyzed single cell suspension from WT (white bar) and Tg+ (black bar) neonates (n=5 of mice per group). Percentage of *Th1/Th2* hybrid cells (**B**, right) of total lung cells from WT (white bar) and Tg+ (black bar) juveniles. Error bars represent SEM. Student *t* test was used to determine significant difference between WT and Tg+ groups.
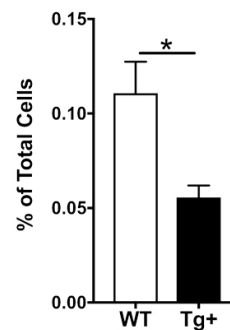
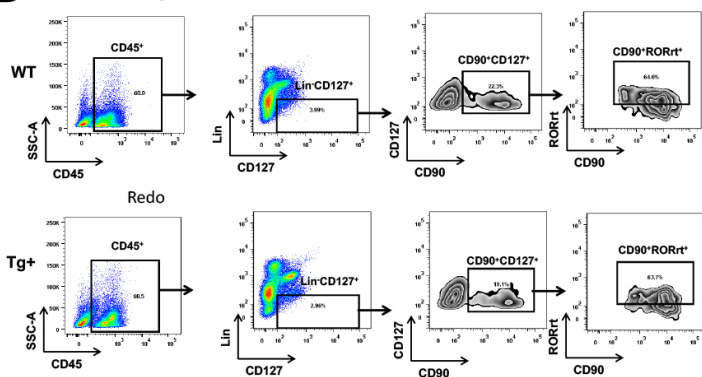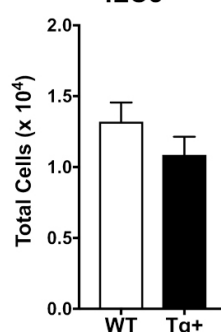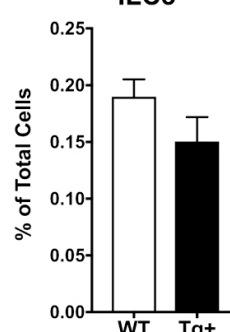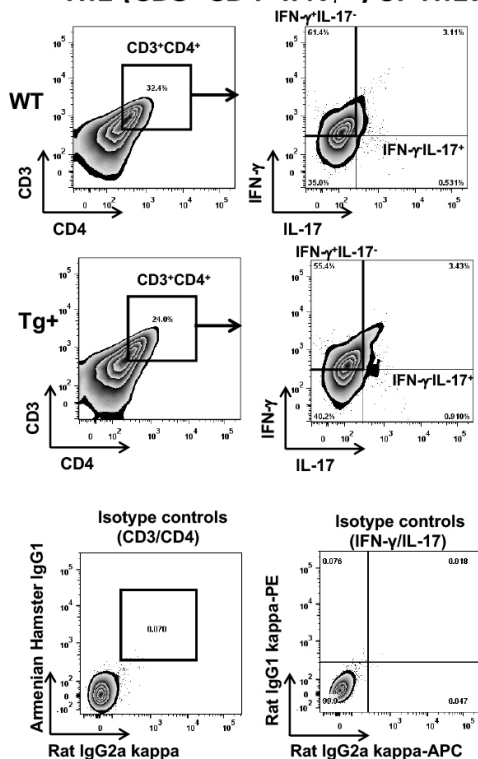**A** ILC1 (CD45+Lin-NK1.1+CD127+RORrt-Eomes-)
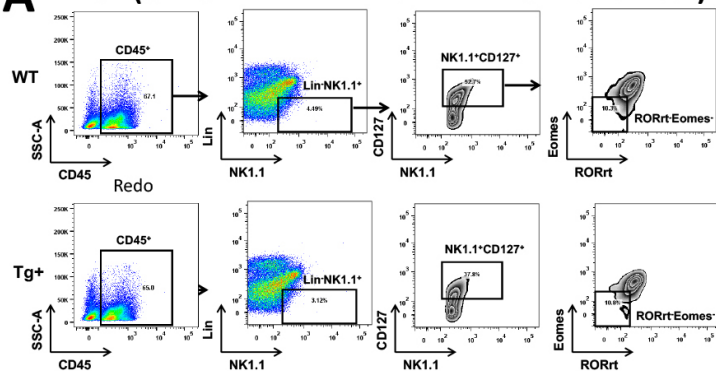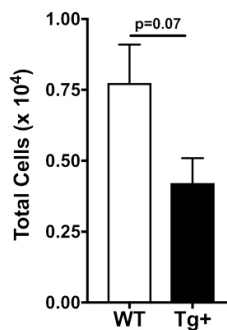
B ILC3 (CD45+Lin-CD127+CD90+RORrt+)

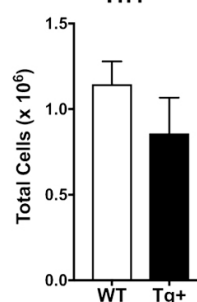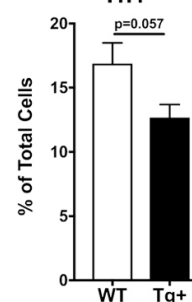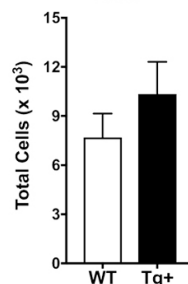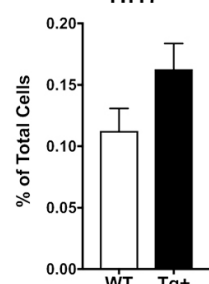**C** Th1 (CD3+CD4+IFNγ+) or Th17 (CD3+CD4+IL17+)

Supplemental Figure 2

Supplemental Figure 2: Immune cell characterization in the lungs of 10-day old WT and Tg+ littermates: Gating Strategy and representative scatter plots for flow cytometric characterization of ILC1 (CD45$^+$Lin$^-$NK1.1$^+$CD127$^+$RORrt$^-$EOMES$^-$) in whole lung single cell suspension from WT (**A,** top panel) and Tg+ neonates (**A,** bottom panel) (n=5 of mice per group). Total counts for ILC1 (**A**, left bar graph) in whole lung single cell suspension from WT (white bar) and Tg+ (black bar) neonates (n=5 of mice per group). Percentage of ILC1 (**A**, right bar graph) in whole lung single cell suspension from WT (white bar) and Tg+ (black bar) neonates. Error bars represent SEM. *p <0.05 analyzed by Student t test. Gating Strategy and representative scatter plots for flow cytometric characterization of ILC3 (CD45$^+$Lin$^-$CD127$^+$CD90$^+$RORrt$^+$) in whole lung single cell suspension from WT (**B,** top panel) and Tg+ neonates (**B,** bottom panel) (n=5 of mice per group. Total counts for ILC3 (**B,** left bar graph) in whole lung single cell suspension from WT (white bar) and Tg+ (black bar) neonates (n=5 of mice per group). Percentage of ILC3 (**B**, right bar graph) in whole lung single cell suspension from WT (white bar) and Tg+ (black bar) neonates. Gating Strategy and representative scatter plots for flow cytometric characterization of *Th1* (CD3$^+$CD4$^+$IFNγ$^+$; upper left quadrant) and *Th17* (CD3$^+$CD4$^+$IL17$^+$; lower right quadrant) in analyzed single cell suspension from WT (**C,** top panels) and Tg+ neonates (**C,** bottom panels) (n=5 of mice per group). Total counts for *Th1* (**C,** left bar graph, Top) in whole lung single cell suspension from WT (white bar) and Tg+ (black bar) neonates (n=5 of mice per group). Percentage of *Th1* (**C,** right bar graph, Top) in whole lung single cell suspension from WT (white bar) and Tg+ (black bar) neonates. Total counts for *Th17* (**C**, left bar graph, Bottom) in whole lung single cell suspension from WT (white bar) and Tg+ (black bar) neonates (n=5 of mice per group). Percent values in the scatter plots indicate the proportion of gated populations. Percentage of *Th17* (**C,** right bar graph, Bottom) of total lung cells from WT (white bar) and Tg+ (black bar) juveniles. Error bars represent SEM. *p<0.05 analyzed by Student t test. ILC1, Innate lymphoid cell 1, *Th1*, T-helper 1; ILC3, Innate lymphoid cell 3; *Th17*, T-helper 17.
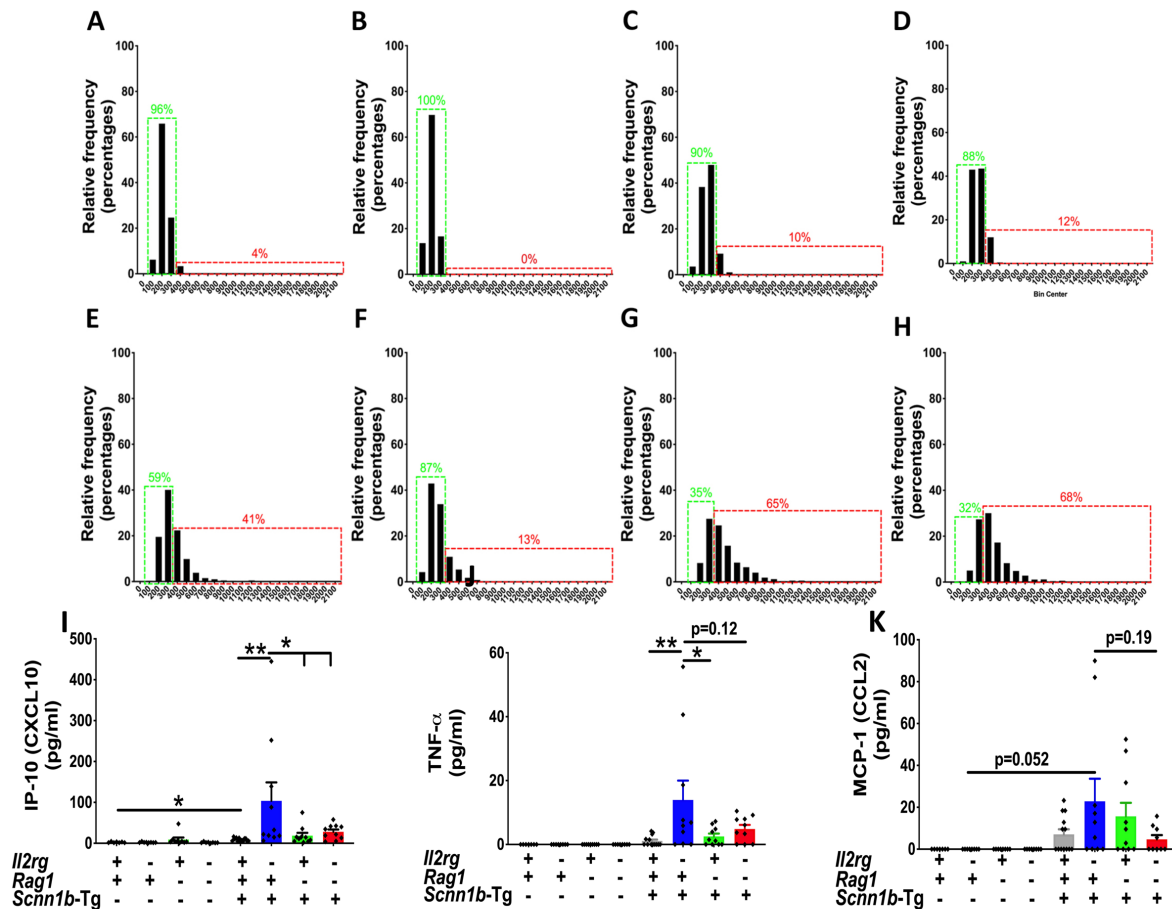
Supplemental Figure 3: Macrophage size distribution of BALF macrophages from immunocompetent WT **(A)**, *Il2rg*^{KO}/WT **(B)**, *Rag1*^{KO}/WT **(C)**, *Il2rg*^{KO}/*Rag1*^{KO}/WT **(D)**, immunocompetent Tg+ **(E)**, *Il2rg*^{KO}/Tg+ **(F)**, *Rag1*^{KO}/Tg+ **(G),** and *Il2rg*^{KO}/*Rag1*^{KO}/Tg+ **(H)** juveniles (n=5 mice per group). BALF, Bronchoalveolar lavage fluid. Concentration (picograms/ml) of IP-10 **(I)**, TNF-α **(J)**, and MCP-1 **(K)** in cell-free BALF from immunocompetent WT (open gray bar, n=7), *Il2rg*^{KO}/WT *(open blue* bar, n=8*)*, *Rag1*^{KO}/WT (open green bar, n=9), *Il2rg*^{KO}/*Rag1*^{KO}/WT (open red bar, n=8), immunocompetent Tg+ (solid gray bar, n=13), *Il2rg*^{KO}/Tg+ (solid blue bar, n=10), *Rag1*^{KO}/Tg+ (solid green bar, n=10), and *Il2rg*^{KO}/*Rag1*^{KO}/Tg+ (solid red bar, n=10) juveniles. Error bars represent SEM. ANOVA followed by Tukey's multiple comparison post-hoc test. *$p<0.05$; **$p<0.01$. IP-10, Interferon gamma induced protein-10; TNF-α, Tumor necrosis factor-α; MCP-1, Monocyte chemoattractant protein-1.
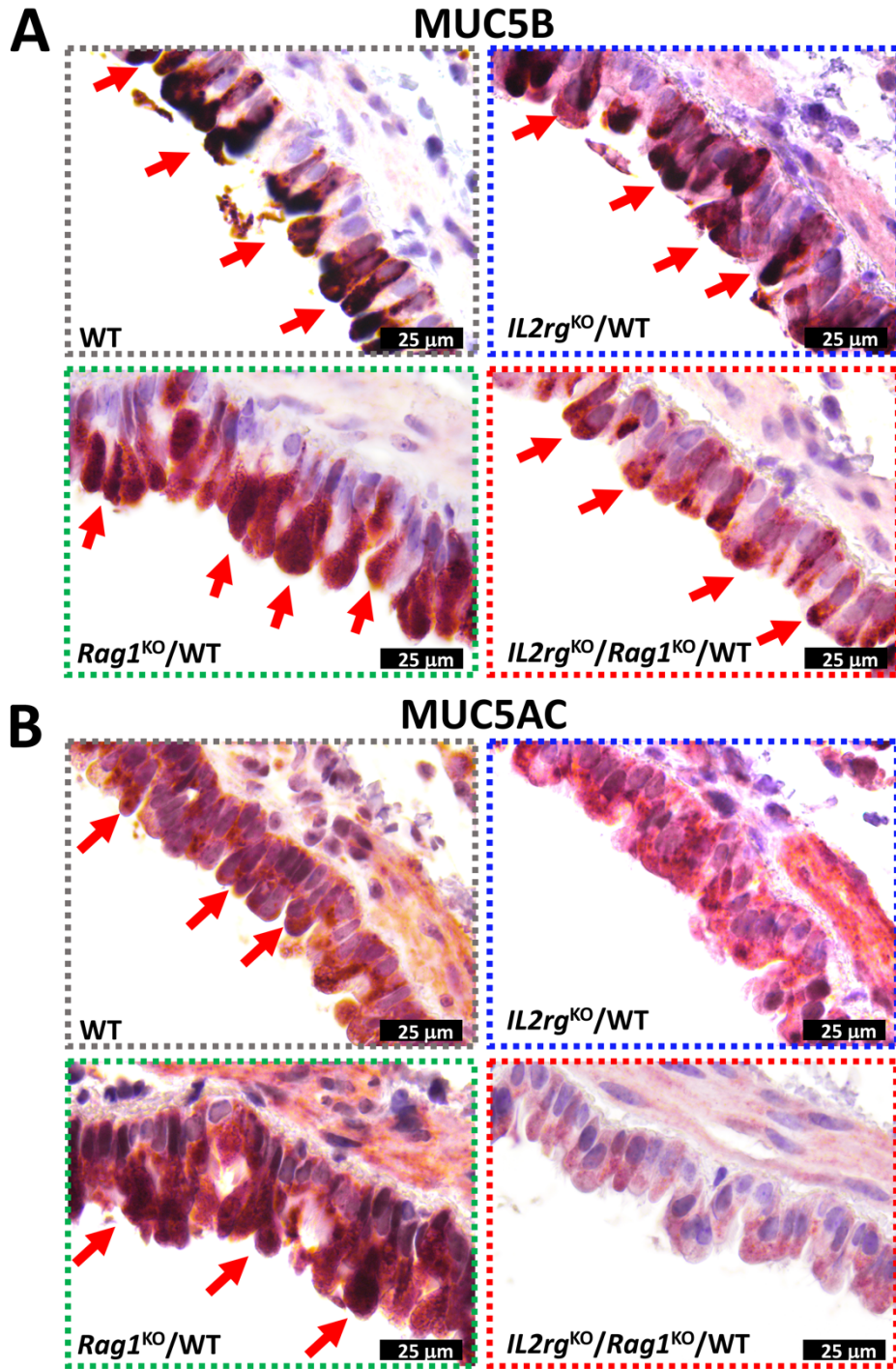
Supplemental Fig. 4

Supplemental Figure 4: (**A**) Representative photomicrographs of MUC5B stained lung sections from immunocompetent WT, *Il2rg*[KO]/WT, *Rag1*[KO]/WT, and *Il2rg*[KO]/*Rag1*[KO]/WT juveniles. (**B**) Representative photomicrographs of MUC5AC stained lung sections from immunocompetent WT, *Il2rg*[KO]/WT, *Rag1*[KO]/WT, and *Il2rg*[KO]/*Rag1*[KO]/WT juveniles.