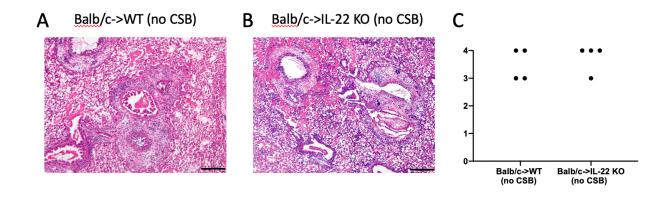
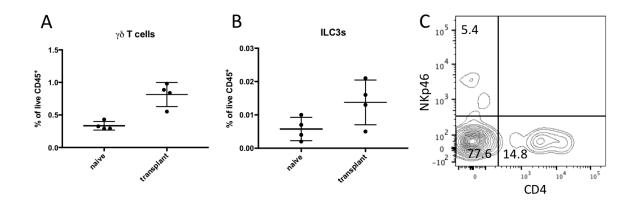
Supporting Information

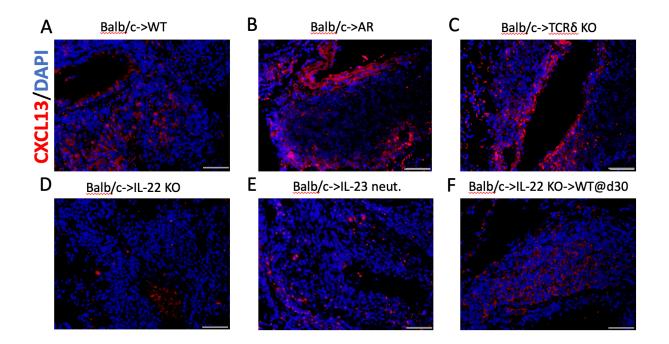


Supplemental figures and figure legends

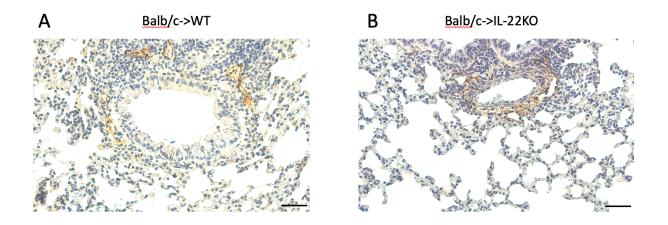
Supplemental Figure 1 – IL-22 deficiency does not prevent allograft rejection. Histological appearance of Balb/c lung allografts 14 days after transplantation without costimulatory blockade (CSB) into (A) B6 wildtype and (B) B6 IL-22-deficient mice. Scale bars: 100µM. (C) Rejection grades (ISHLT Grade A) of the two conditions. n=4 each. p=ns.



Supplemental Figure 2: $\gamma\delta$ T cells and ILC3s infiltrate lung allografts during tolerance induction. Percentage of (A) $\gamma\delta$ T cells and (B) ILC3s among live (CD45.1⁺) cells in naïve (B6 CD45.1⁺) and Balb/c CD45.2⁺ lung grafts 7 days after transplantation into B6 CD45.1⁺ recipients that were treated with peri-operative costimulatory blockade (n=4). (C) ILC3 populations in a tolerant lung allograft reveals the presence of Natural Cytotoxicity Receptor (NCR)⁺ ILC3s (CD4⁻NKp46⁺), double-negative ILC3s (CD4⁻NKp46⁻) and CD4⁺ ILC3s (CD4⁺NKp46⁻). Plots are gated on live, single CD45.1⁺CD3⁻CD19⁻CD127⁺CD90⁺ROR γ t⁺cells.



Supplemental Figure 3 – CXCL13 expression within intragraft lymphoid follicles depends on IL-22. Representative immunofluorescent staining of CXCL13 (red) in Balb/c lung allografts 30 days after transplantation into (A) wildtype (WT), (B) AR mice (ROR γ t-cre Ahr^{fl/fl}), (C) $\gamma\delta$ T cell-deficient (TCR $\delta^{-/-}$), (D) IL-22 deficient, and (E) IL-23 neutralized mice. Recipients were treated with peri-operative costimulatory blockade for all conditions. (F) CXCL13 (red) 30 days after retransplantation of IL-22 deficient lung grafts into a wildtype secondary host. Scale bars: 100µM.



Supplemental Figure 4 – CCL21 expression within intragraft lymphoid follicles does not depend on recipient IL-22. Representative immunostaining of CCL21 (brown) in Balb/c lung allografts 30 days after transplantation into (A) wildtype (WT) or (B) IL-22 deficient mice. Recipients were treated with peri-operative co-stimulatory blockade for all conditions. Scale bars: 100µM.