

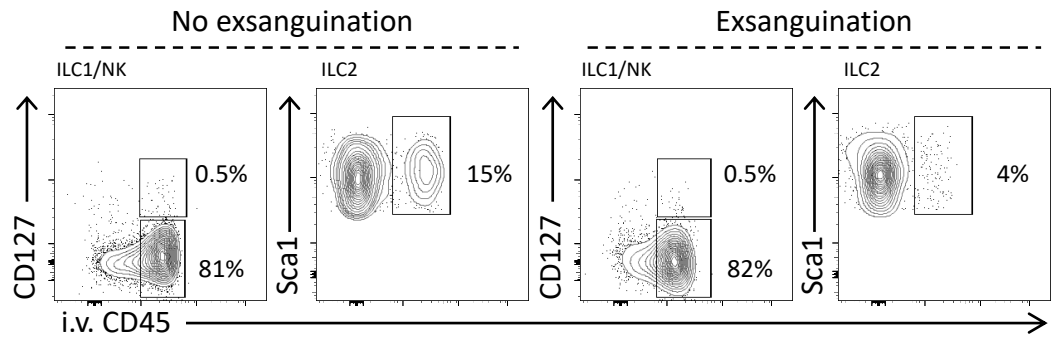


Figure S1. Exsanguination is efficient to remove circulating ILC2. Flow cytometry analyses of ILC1/NK (Lin⁻(CD3, CD5, CD19, TCR β , TCR $\gamma\delta$, Gr1, Ter119, CD8 α , F4/80) NK1.1⁺ NKp46⁺) and ILC2 (Lin⁻(CD3, CD5, CD19, TCR β , TCR $\gamma\delta$, Gr1, Ter119, CD8 α , F4/80) NK1.1⁻ IL7R⁺ Sca1⁺) lung cells from CXCR6^{+/GFP} and CXCR6^{GFP/GFP} mice. Different subsets are distinguished by the expression of CD45. Anti-CD45 antibody coupled with a fluorochrome was injected intravitaly 2 minutes before the sacrifice.

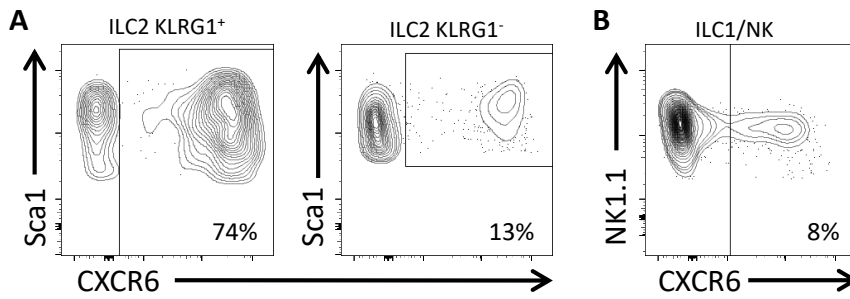


Figure S2. CXCR6 is mainly expressed by lung ILC2 KLRG1⁺. (A) Flow cytometry analyses of CD45⁺ Lin⁻ (CD3, CD5, CD19, TCR β , TCR $\gamma\delta$, Gr1, Ter119, CD8 α and F4/80) NKp46⁻ NK1.1⁻ lung cells from CXCR6^{+/GFP} mice. Different subsets are distinguished depending on the expression of KLRG1. Sca1 and CXCR6 expression from KLRG1⁺ and KLRG1⁻ populations (graphs are representative of n=3). (B) Flow cytometry analyses of CD45⁺ Lin⁻ lung cells from CXCR6^{+/GFP} mice. CXCR6 expression among ILC1/NK (NK1.1⁺ NKp46⁺) cells (graphs are representative of n=3).

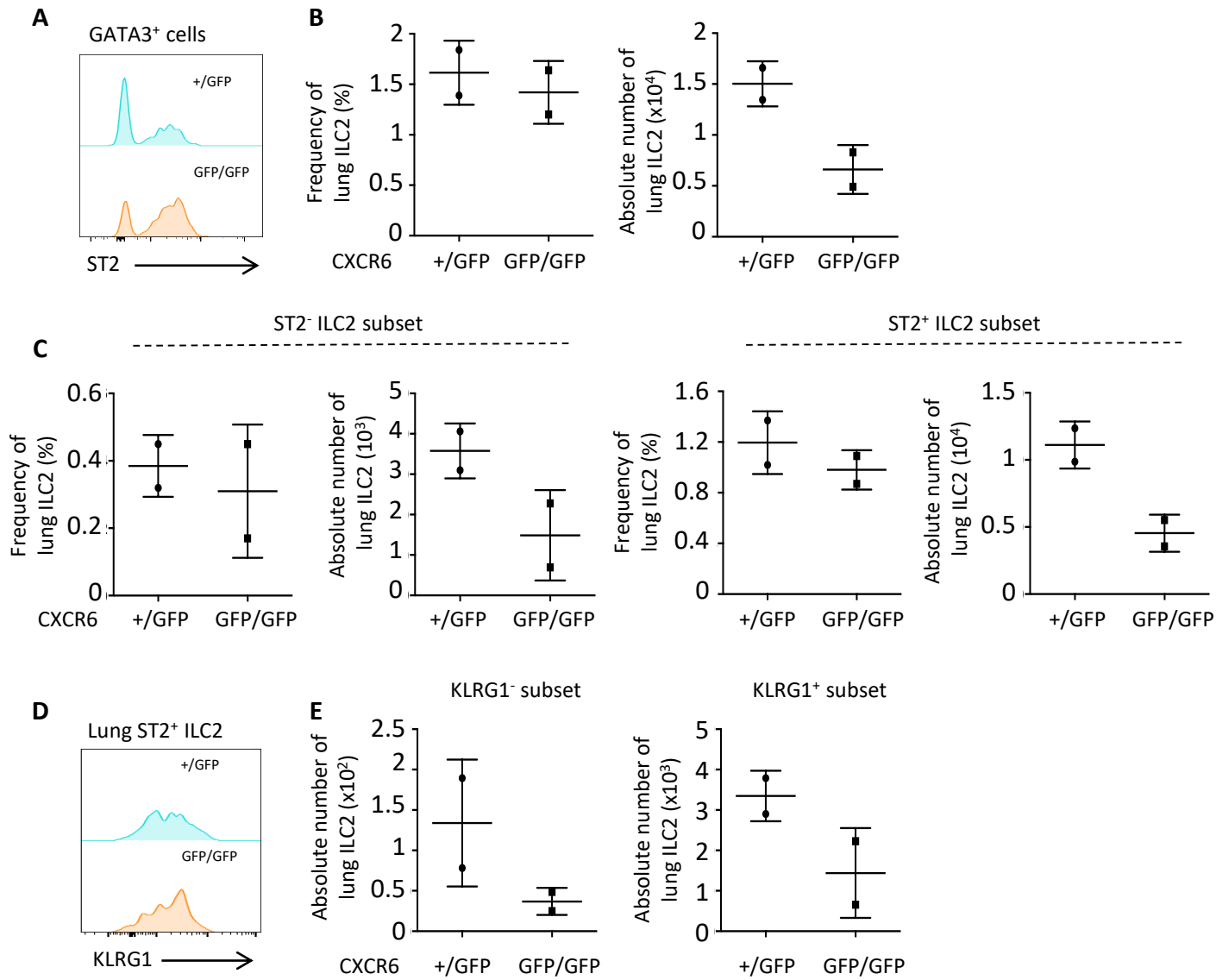


Figure S3. Phenotype and frequency of ILC2 are altered in CXCR6^{GFP/GFP} mice after inflammatory induction (papain stimulation) (A) ST2 MFI of GATA3⁺ lung cells from CXCR6^{+/GFP} and CXCR6^{GFP/GFP} mice. (+/GFP = 2, GFP/GFP = 2) (B) Frequency and absolute number of lung ILC2 (CD45⁺ Lin⁻ GATA3⁺) from CXCR6^{+/GFP} and CXCR6^{GFP/GFP} mice. (+/GFP = 2, GFP/GFP = 2) (C) Frequency and absolute number of lung ST2⁻ ILC2 and ST2⁺ ILC2 (CD45⁺ Lin⁻ GATA3⁺) from CXCR6^{+/GFP} and CXCR6^{GFP/GFP} mice. (+/GFP = 2, GFP/GFP = 2) (D) KLRG1 MFI of GATA3⁺ ST2⁺ lung cells from CXCR6^{+/GFP} and CXCR6^{GFP/GFP} mice. (+/GFP = 2, GFP/GFP = 2) (E) Frequency and absolute number of KLRG1⁺ ST2⁺ and KLRG1⁻ ST2⁺ lung ILC2 (CD45⁺ Lin⁻ GATA3⁺) from CXCR6^{+/GFP} and CXCR6^{GFP/GFP} mice. (+/GFP = 2, GFP/GFP = 2).

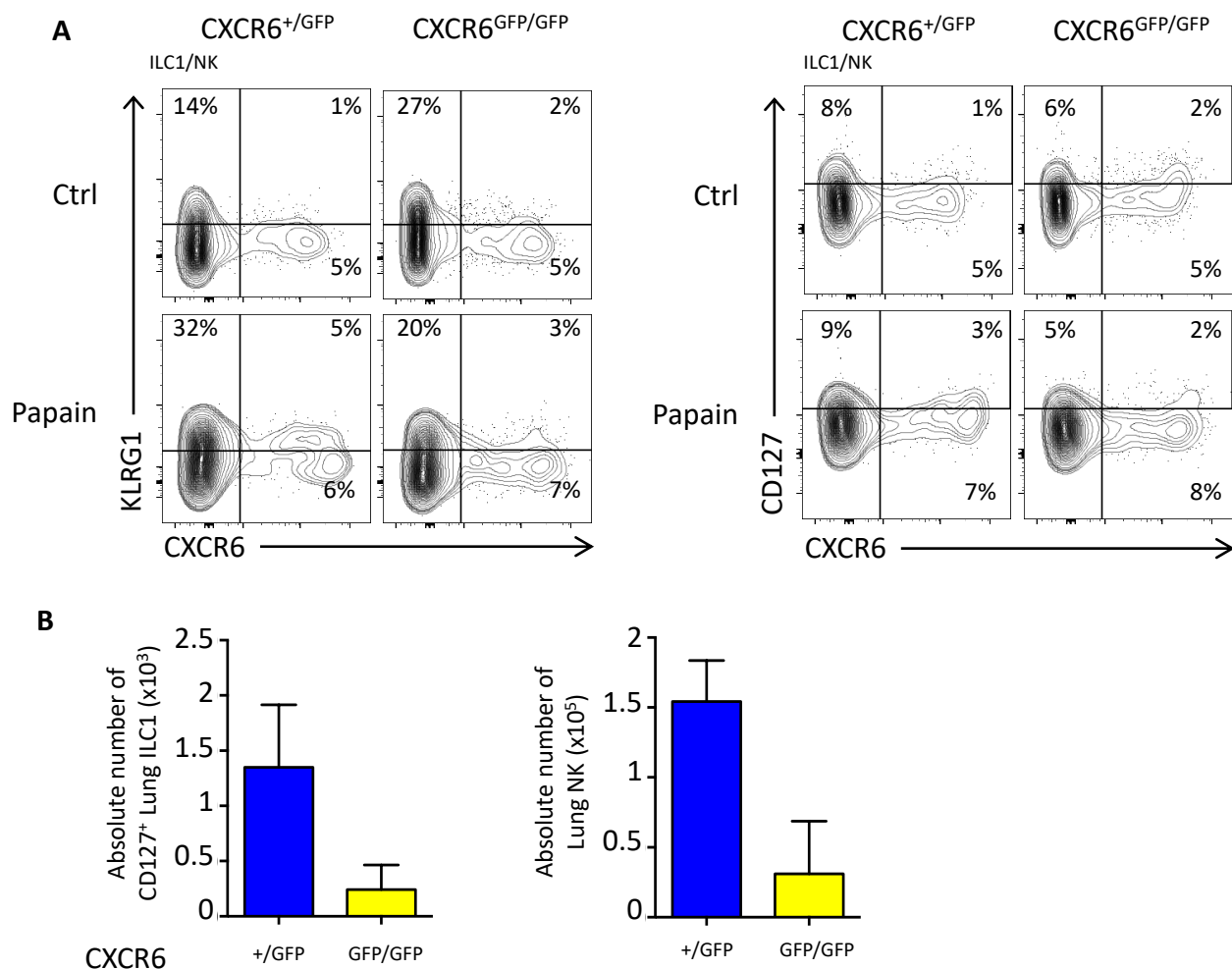


Figure S4. ILC1 and NK cell numbers are altered in CXCR6^{GFP/GFP} mice after inflammatory induction (papain stimulation). (A) Flow cytometry analyses of ILC1/NK (Lin⁻:CD3, CD5, CD19, TCR β , TCR $\gamma\delta$, Gr1, Ter119, CD8 α , F4/80; CD45⁺ NK1.1⁺ NKp46⁺) lung cells from CXCR6^{+/GFP} and CXCR6^{GFP/GFP} mice. Different subsets are distinguished by the expression of KLRG1 and CXCR6 (left panel of graphs) or CD127 and CXCR6 (right panel of graphs). (+/GFP = 2, GFP/GFP = 2). (B) Absolute numbers of ILC1 (lin⁻ CD45⁺ NKp46⁺ NK1.1⁺ CD127⁻) and NK cells (Lin⁻ CD45⁺ NKp46⁺ NK1.1⁺ CD127⁺) from CXCR6^{+/GFP} and CXCR6^{GFP/GFP} mice. (+/GFP = 2, GFP/GFP = 2).

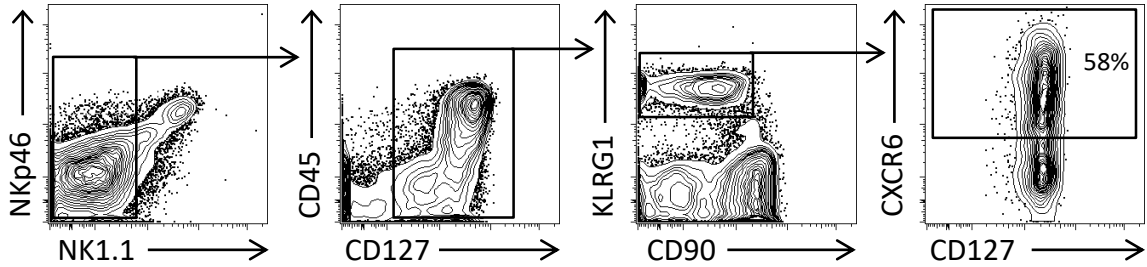


Figure S5. CXCR6 is expressed by *lamina propria* (LP) ILC2. Flow cytometry analyses of LP ILC2 (Lin⁻:CD3, CD5, CD19, TCR β , TCR $\gamma\delta$, Gr1, Ter119, CD8 α and F4/80; NKp46⁻ NK1.1⁻ CD127⁺ KLRG1⁺) from CXCR6^{+/GFP} mice. CD127 and CXCR6 expression among ILC2 cells (graphs are representative of n=5).