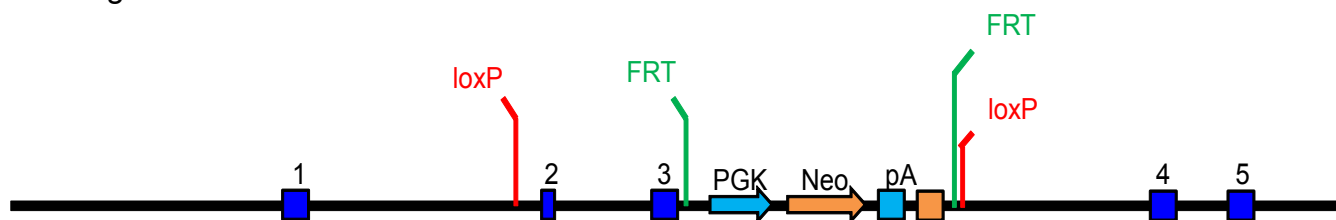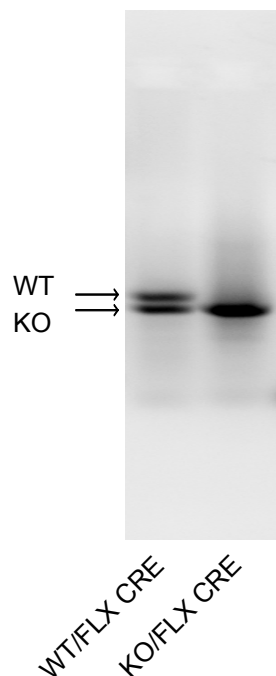**A** Targeted *Il17rb* allele
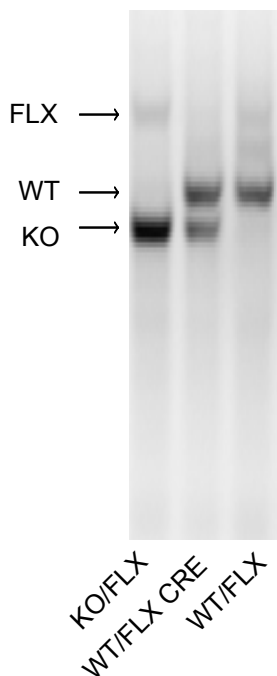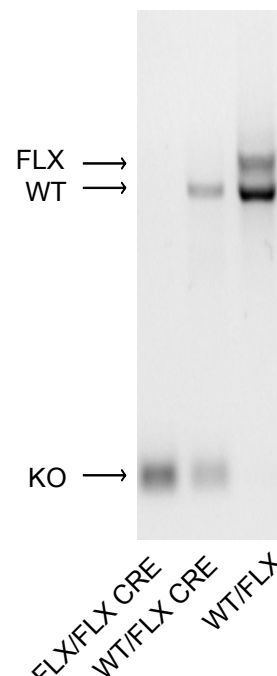
B CD11c⁺ lung cells
CD11c ΔCIKS

C CD11c⁺ spleen cells
CD11c ΔCIKS

D CD11c⁺ lung cells
CD11c ΔRB

Supplemental Figure 1: Generation of a floxed *Il17rb* allele and efficient CD11c-Cre mediated deletion of floxed *Ciks (Traf3ip2)* and floxed *Il17rb* alleles. (A) Genomic organization of the targeted (recombined) *Il17rb* allele. Construction of the targeting vector, recombination in C57BL/6 ES cells and generation of mice with germline transmission were performed by Ozgene (Australia). The FRT cassette was deleted in germline via introduction (crossing of lines) of an Actin-driven FLPe recombinase transgene, which was subsequently bred out. This resulted in mice carrying a floxed (loxP flanked exons 2+3) I*l17rbflx* allele lacking the FRT cassette. A complete germline knockout (KO) allele was also generated by introduction of an EIIa-driven Cre recombinase transgene, which was subsequently bred out. Appropriate crosses allowed for generation of mice with *WT, Il17rbflx* and/or I*l17rb-* (*KO*) alleles, along with or without a transgene encoding a CD11c-driven Cre recombinase. (B-D) Sorted CD11c+ cells from lungs or spleen (as indicated) were genotyped with PCR to demonstrate efficient CD11c-Cre mediated deletion of floxed *Ciks* (B,C) and floxed *Il17rb* (D) alleles.
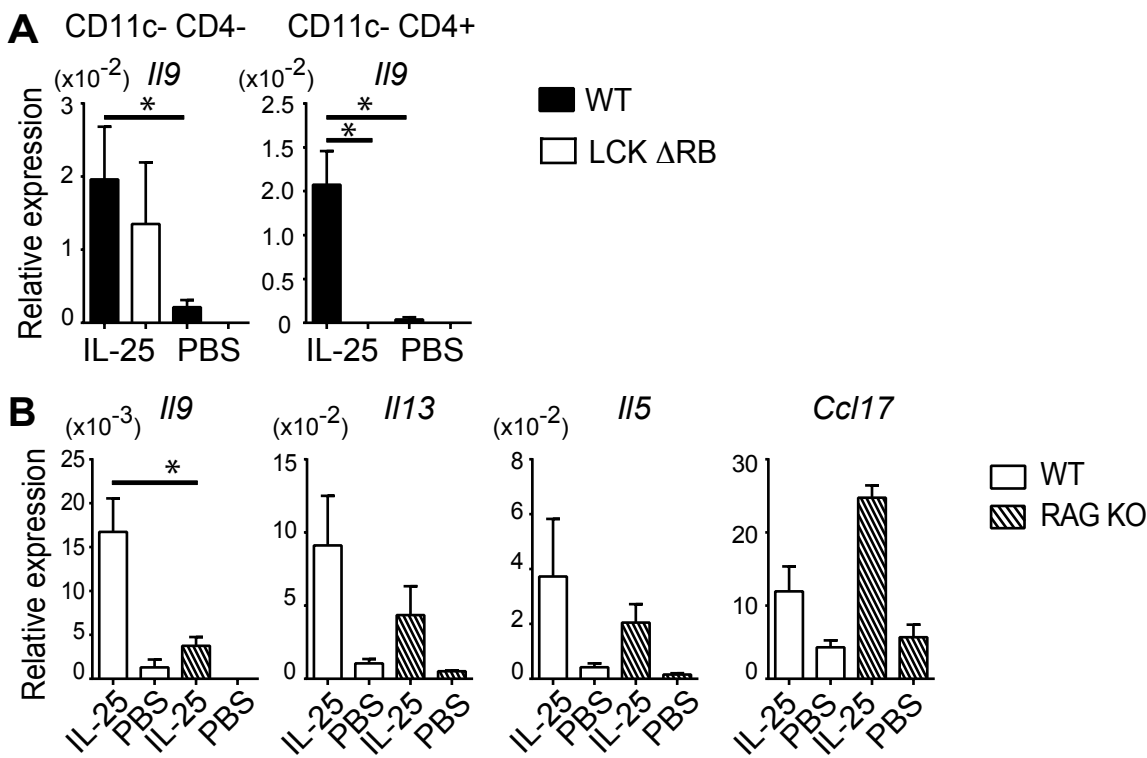
Supplemental Figure 2: (A) Expression of *Il9* in lung cell populations indicated from WT and Lck Δ RB mice, 24h after a single challenge with IL-25 or PBS.
(B) Relative expression of *Ccl17*, *Il9*, *Il13* and *Il5* in total lung of wild-type (WT) and RAG KO mice 24h after three daily challenges with IL-25 or PBS. (A,B) Data shown as mean ± sem, based on three independent experiments, each with cells pooled from 3-4 mice/genotype/condition. * $p < 0.05$.
(**C**) Antibodies used for FACS analysis (from BD Bioscience, ebioscience, Biolegend)

Antibody	Clone	Fluorochrome	Antibody	Clone	Fluorochrome
FcRεI	MAR1	APC	CD3	145-2C11	PB
Cd117	c-kit	PE	CD25	PC61	APC
Cd49b	DX-5	PE-Cy7	TCRb	H57-787	PB
CD278	ICOS	FITC	CD44	IM7	PE-Cy5
CD11c	HL3	APC	IL-9	RM9a	PE
CD103	2E7	PE	IL-13	Ebio13A	APC
CD11b	Mac1	PercP	IL-17	TCII-18H10	FITC
CD4	GK1.5	APC-Cy7			