

SUPPLEMENTAL MATERIAL

Nair et al., <http://www.jem.org/cgi/content/full/jem.20082048/DC1>

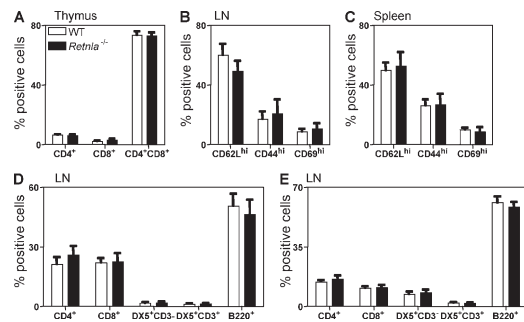


Figure S1. Characterization of the immune cell compartments of WT and *Retnla*^{-/-} mice. Results are presented as means ± SEM (*n* = 4) and are representative of two independent experiments.

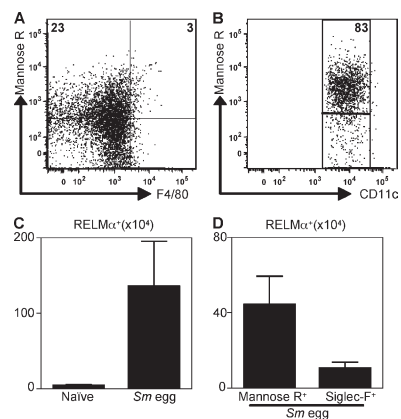


Figure S2. CD11c⁺mannose receptor⁺ lung macrophages are a dominant cellular source of RELM- α . Dissociated lung cells from *Sm* egg-challenged WT mice were stained for the mannose receptor, F4/80 (A), and CD11c (B). Flow cytometric plots are gated on the large cells (A) or CD11c⁺ cells (B). (C) Total numbers of RELM- α ⁺ cells within dissociated lung. (D) Total number of RELM- α ⁺mannose receptor⁺ or RELM- α ⁺siglec-F⁺ cells within the lung. Data (±SEM) are representative of two independent experiments (naive, *n* = 3; *Sm* egg-challenged, *n* = 5).

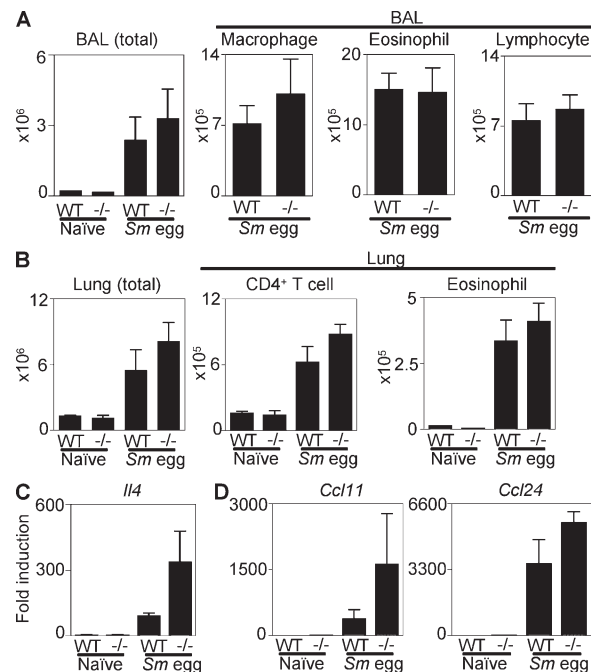


Figure S3. Characterization of the inflammation in the lung and BAL of naive and *Sm* egg-challenged WT and *Retnla*^{-/-} mice. (A) Number of BAL cells recovered and characterization of cell types as determined by microscopic examination of cytocentrifuge preparations. (B) Total number of lung cells and frequency of the CD4⁺ T cells and siglec-F⁺ eosinophils as determined by flow cytometry. (C and D) Real-time PCR analysis of the lung RNA for expression levels of *Il4* (C) and *Ccl11* and *Ccl24* (D), measured as fold induction over naive WT mice. Results (\pm SEM) are representative of three independent experiments (naive, $n = 3$; *Sm* egg-challenged, $n = 10$).

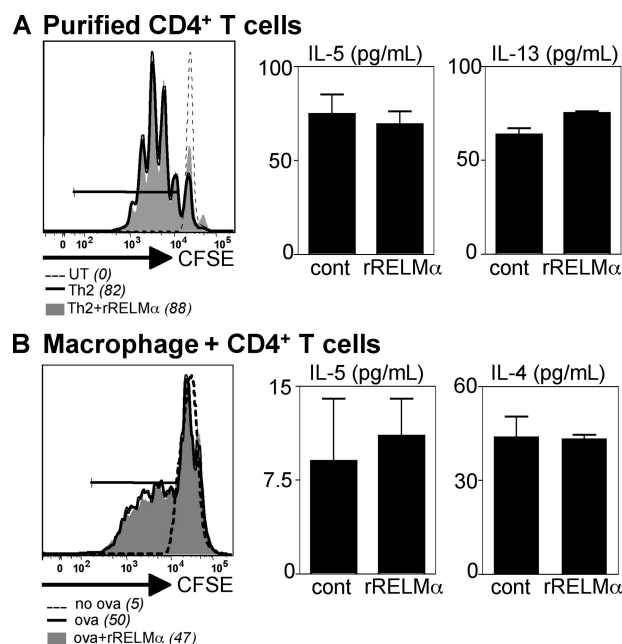


Figure S4. Effect of rRELM- α on purified CD4⁺ T cells and BMMacs. (A) Purified WT CD4⁺ T cells were CFSE labeled and left untreated or stimulated with plate-bound α -CD3/ α -CD28 under Th2-permissive conditions, with or without 5 μ g/ml rRELM- α . At day 4, cells were recovered for measurement of proliferation, and supernatants were recovered for measurement of IL-5 and IL-13 secretion by ELISA. (B) WT BMMacs were left untreated or pulsed with OVA and IL-4 with or without 5 μ g/ml rRELM- α overnight, followed by washing in medium and coculture with OVA-specific CD4⁺ T cells. 4 d later, cells were recovered for measurement of CD4⁺ T cell proliferation and secretion of IL-5 and IL-4 by ELISA. Results (\pm SEM of duplicate wells) are representative of two independent experiments.

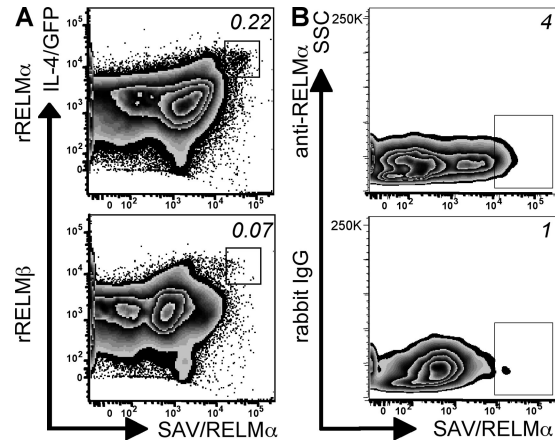


Figure S5. RELM- α binding assay is specific. (A) The rRELM- α capture assay was performed as described in Fig. 7, with an additional control involving incubation with rRELM- β . (B) A further control involved incubation with rabbit IgG instead of anti-RELM- α .

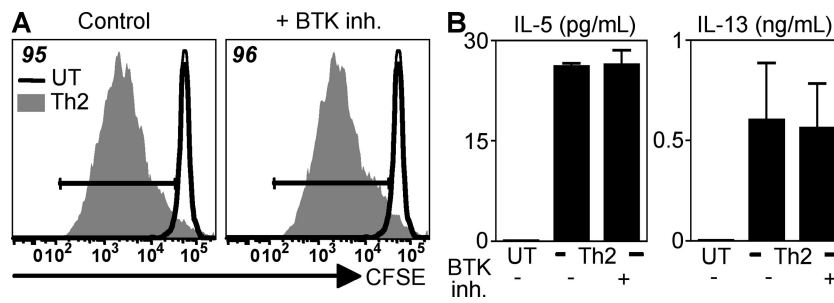


Figure S6. Effect of BTK inhibitor on WT splenocytes. CFSE-labeled splenocytes were left untreated or activated with α -CD3/ α -CD28 under Th2-permissive conditions, with or without treatment with a BTK inhibitor (BTK inh.), and assayed 4 d later for CD4⁺ T cell proliferation (A) and secretion of IL-5 and IL-13 (B). Results (\pm SEM of triplicate wells) are representative of two independent experiments.