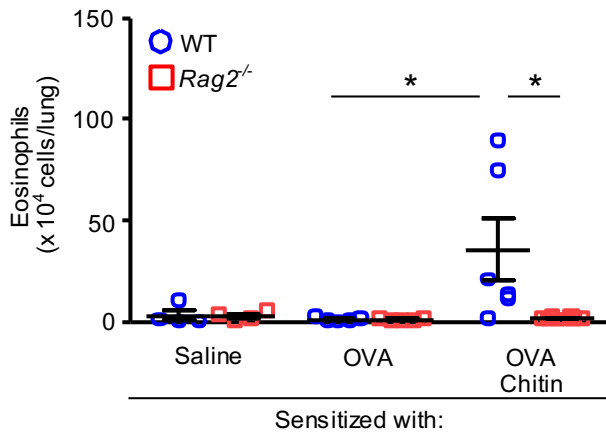


**Chitin promotes antigen-specific Th2 cell-mediated murine asthma through induction of IL-33-mediated IL-1 $\beta$  production by DCs**

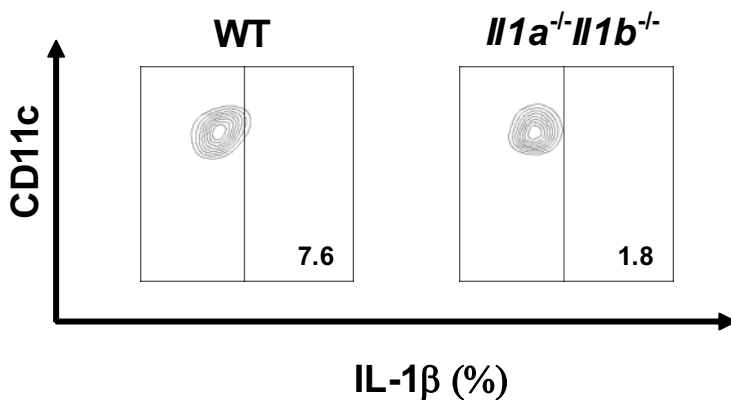
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## Supplementary Figures



**Supplemental Figure 1.** OVA-specific T cells are essential for development of OVA-induced airway inflammation in the presence of chitin. The number of eosinophils in the BALFs from C57BL/6-wild-type and *-Rag2*<sup>-/-</sup> mice intranasally sensitized with or without OVA ± chitin and challenged with OVA, as shown in Fig. 1a. Data are shown as the mean ± SE. 1-way or 2-way ANOVA, \**P* < 0.05.



**Supplemental Figure 2.** Chitin induces IL-1β by DCs. C57BL/6-wild-type (n=3) and *-Il1a*<sup>-/-</sup>*Il1b*<sup>-/-</sup> (n=3) mice were intranasally treated with OVA+Chitin on 3 consecutive days. Twenty-four hours after the last treatment, thoracic LNs were harvested. The proportion of CD45<sup>+</sup> IL-1β-producing DCs in 7-AAD-negative I-A/I-E<sup>hi</sup>CD11c<sup>hi</sup> cells in the LNs was determined by flow cytometry. Data are shown as a representative data from 3-independent experiments.