

Supporting Information

Kim et al. 10.1073/pnas.1507393112

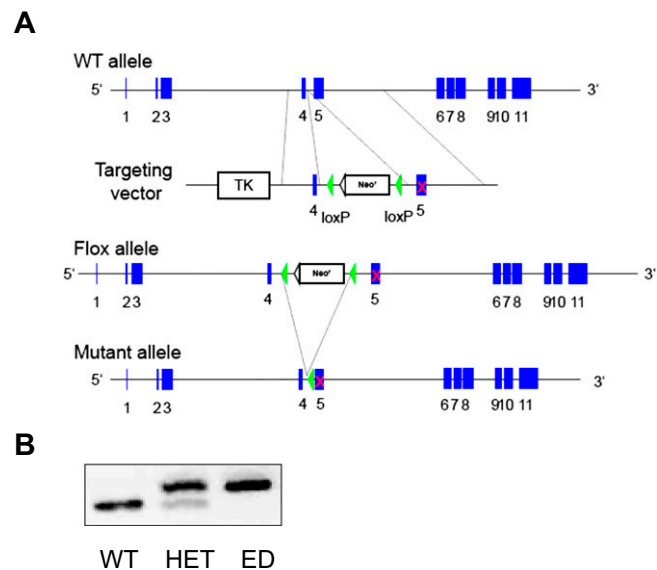


Fig. S1. (A) Targeting strategy of *AMCase-ED* mice. (B) Genotyping PCR. WT allele gives a 120-bp fragment, whereas *AMCase-ED* allele gives a 150-bp fragment. The primer sequences are listed in *Materials and Methods*.

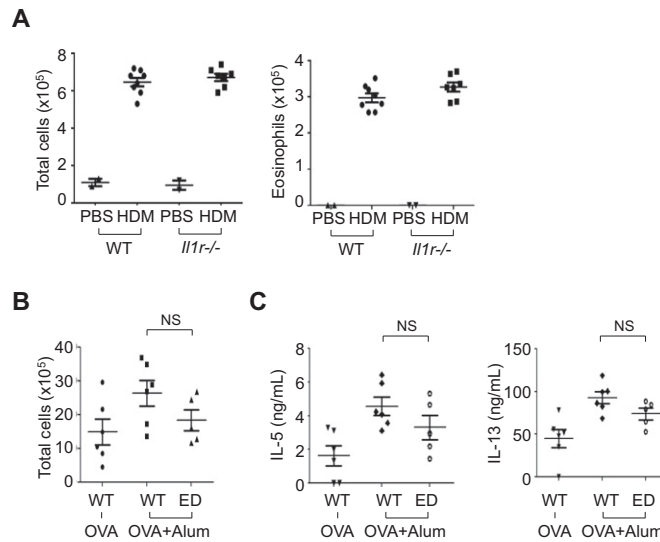


Fig. S6. WT and *Il1r*^{-/-} mice after administration of HDM. (A) The number of total cells (Left) or eosinophils (Right) in the BAL of WT or *Il1r*^{-/-} mice after administration of PBS or HDM. (B) The number of total cells in the BAL of WT or *AMCase-ED* mice after administration of OVA. (C) Production of IL-5 (Left) and IL-13 (Right). Unpaired Student's *t* test was performed. Error bars indicate the SEM.

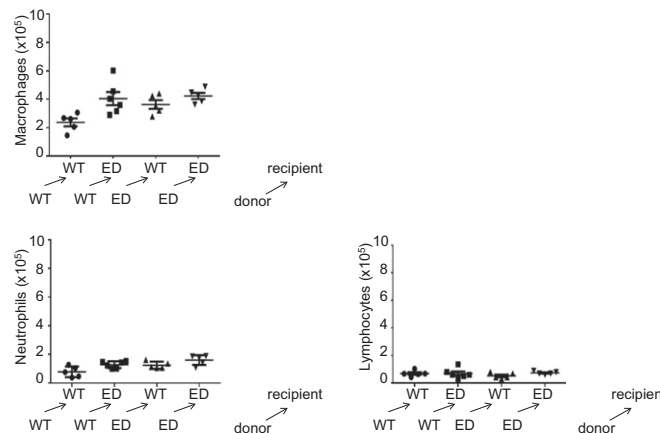


Fig. S7. The number of macrophages, neutrophils, or lymphocytes in the BAL of WT \rightarrow WT (where WT bone marrow was injected into irradiated WT recipients), WT \rightarrow *AMCase-ED*, *AMCase-ED* \rightarrow WT, or *AMCase-ED* \rightarrow *AMCase-ED* mice after administration of HDM. Error bars indicate the SEM.

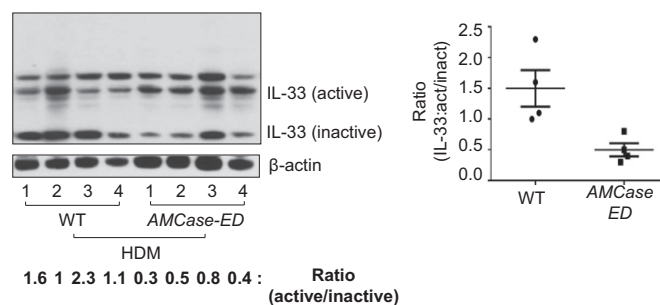


Fig. S8. IL-33 processing in the lung in WT or *AMCase-ED* mice after administration of HDM. Immunoblot analysis of IL-33 and β -actin in lung lysates from WT mice or *AMCase-ED* mice after administration of HDM. The number (immediately below the immunoblot analysis) indicates the individual mouse. The bolder numbers are the ratios, calculated by active IL-33 density divided by inactive IL-33 density. The density is measured using ImageJ (NIH). The ratio from each individual mouse was plotted (Right). Error bars indicate the SEM.

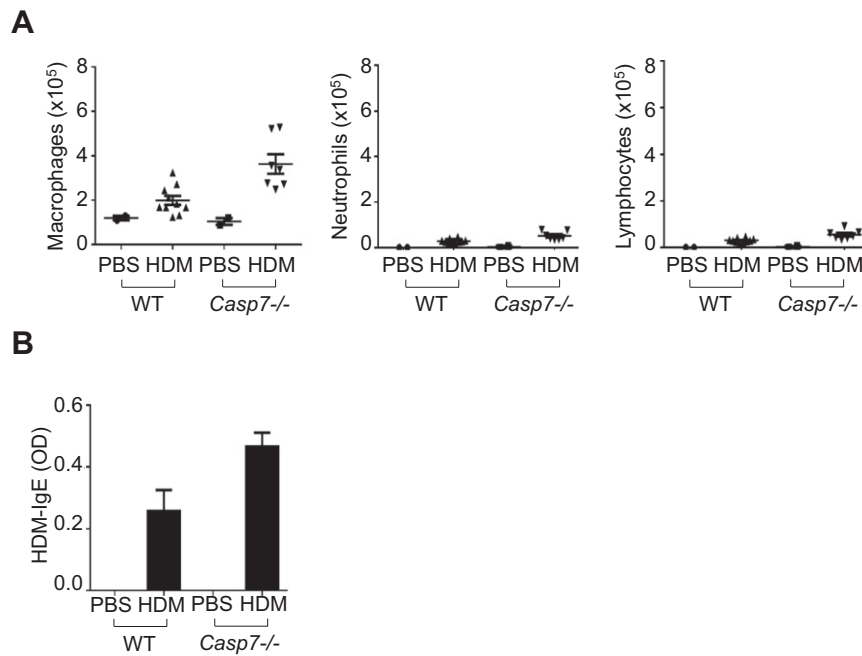


Fig. 59. WT and *Casp7*^{-/-} mice after administration of HDM. (A) The number of macrophages (Left), neutrophils (Middle) or lymphocytes (Right) in the BAL of WT or *Casp7*^{-/-} mice after administration of PBS or HDM. (B) Levels of HDM-specific IgE in serum of WT or *Casp7*^{-/-} mice after administration of PBS or HDM. Data were combined from at least three independent experiments. Error bars indicate the SEM.

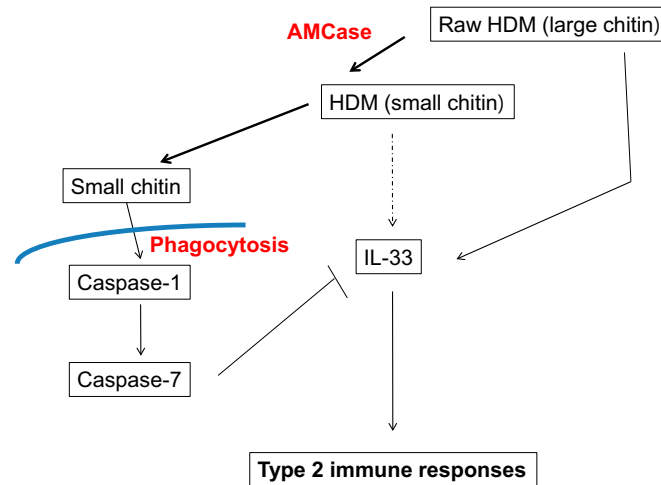


Fig. 510. Proposed model.