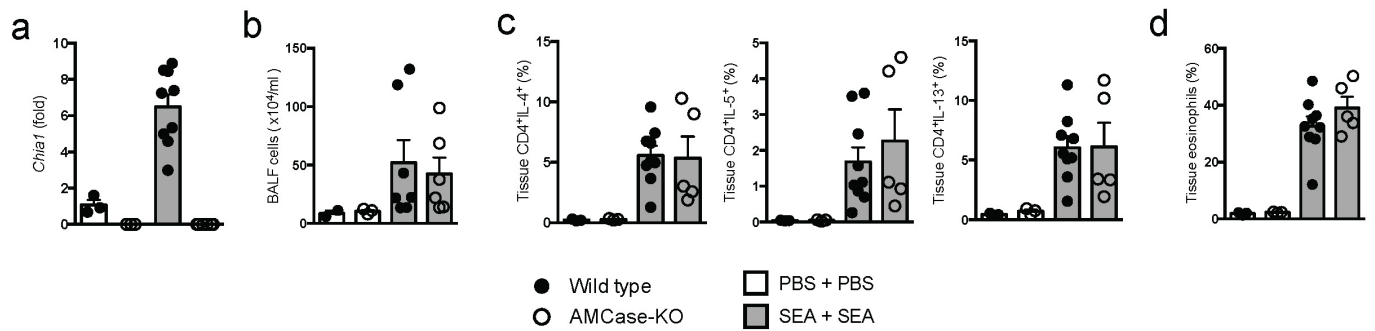


Supplementary Figure 1

Acute model of papain-induced type 2 allergic inflammation in the lung.

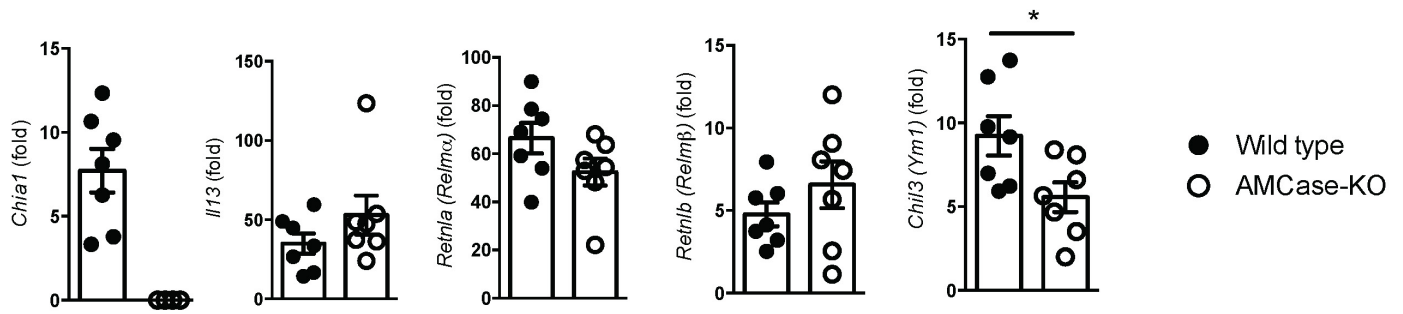
(a) Quantitative PCR analysis of gene expression in lung tissue from wild type mice or AMCCase-KO mice sensitized and challenged intranasally with PBS ($n = 3$ mice per genotype) or papain ($n = 5$ mice per genotype) expressed relative to water-treated wild type. (b) Quantification of eosinophils in lung tissue of mice in a (PBS: $n = 3$, papain: $n = 5$). (c) Intracellular cytokine analysis of lung tissue lymphocytes of mice in a (PBS: $n = 3$, HDM: $n = 5$). (d) Quantification of eosinophils in BALF of mice in a (PBS: $n = 3$, HDM: $n = 5$). (e) Intracellular cytokine analysis of BALF lymphocytes of mice in a (PBS: $n = 3$, HDM: $n = 5$). Error bars represent standard error of the mean, and each data point represents a value for an individual mouse.



Supplementary Figure 2

Acute model of SEA-induced type 2 allergic inflammation in the lung.

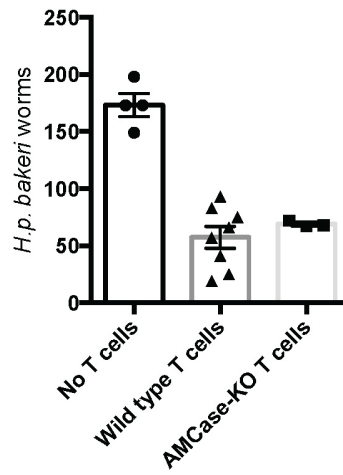
(a) Quantitative PCR analysis of gene expression in lung tissue from wild type mice or AMCase-KO mice sensitized and challenged intratracheally with PBS ($n = 3$ mice per genotype) or schistosoma egg antigen (SEA) ($n = 9$ mice per genotype) expressed relative to PBS-treated wild type. (b) Quantification of leukocytes in BALF of mice in a (PBS: $n = 3$, SEA: $n = 6$). (c) Intracellular cytokine analysis of lung tissue lymphocytes of mice in a (PBS: $n = 3$, WT/SEA: $n = 9$, KO/SEA: $n = 5$). (d) Quantification of eosinophils in lung tissue of mice in a (PBS: $n = 3$, WT/SEA: $n = 9$, KO/SEA: $n = 5$). Data are representative of three experiments with similar results. Error bars represent standard error of the mean, and each data point represents a value for an individual mouse.



Supplementary Figure 3

Gene expression in lung tissue during *N. brasiliensis* infection.

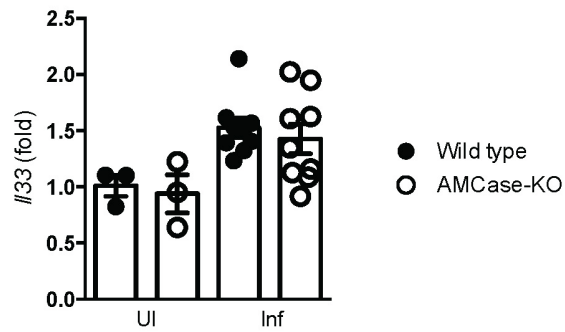
Quantitative PCR analysis of gene expression in lung tissue from wild type mice ($n = 7$) or AMCase-KO mice ($n = 7$) 8 days after primary infection with *N. brasiliensis*. Data shown relative to expression in lung tissue from naïve mice. * $P < 0.05$ (Student's t -test). Data are representative of two experiments with similar results. Error bars represent standard error of the mean, and each data point represents a value for an individual mouse.



Supplementary Figure 4

Wild type and AMCase-deficient T cells are equally competent at clearing *H.p. bakeri* infection.

Quantification of *H.p. bakeri* worms recovered from intestines of TCR α KO mice that were recipients of 2×10^5 T cells from previously infected wild type mice (triangles, $n = 8$), 2×10^5 T cells from previously infected AMCase-KO mice (squares, $n = 3$), or no T cells (circles, $n = 4$).



Supplementary Figure 5

Il33 expression in small intestine tissue 3.5 days after primary *H. p. bakeri* infection.

Quantitative PCR analysis of *Il33* expression in proximal small intestine tissue from wild type mice or AMCase-KO mice 3.5 days post-infection ($n = 9$ per genotype) or from uninfected wild type or AMCase-KO ($n = 3$ per genotype). Error bars represent standard error of the mean, and each data point represents a value for an individual mouse.