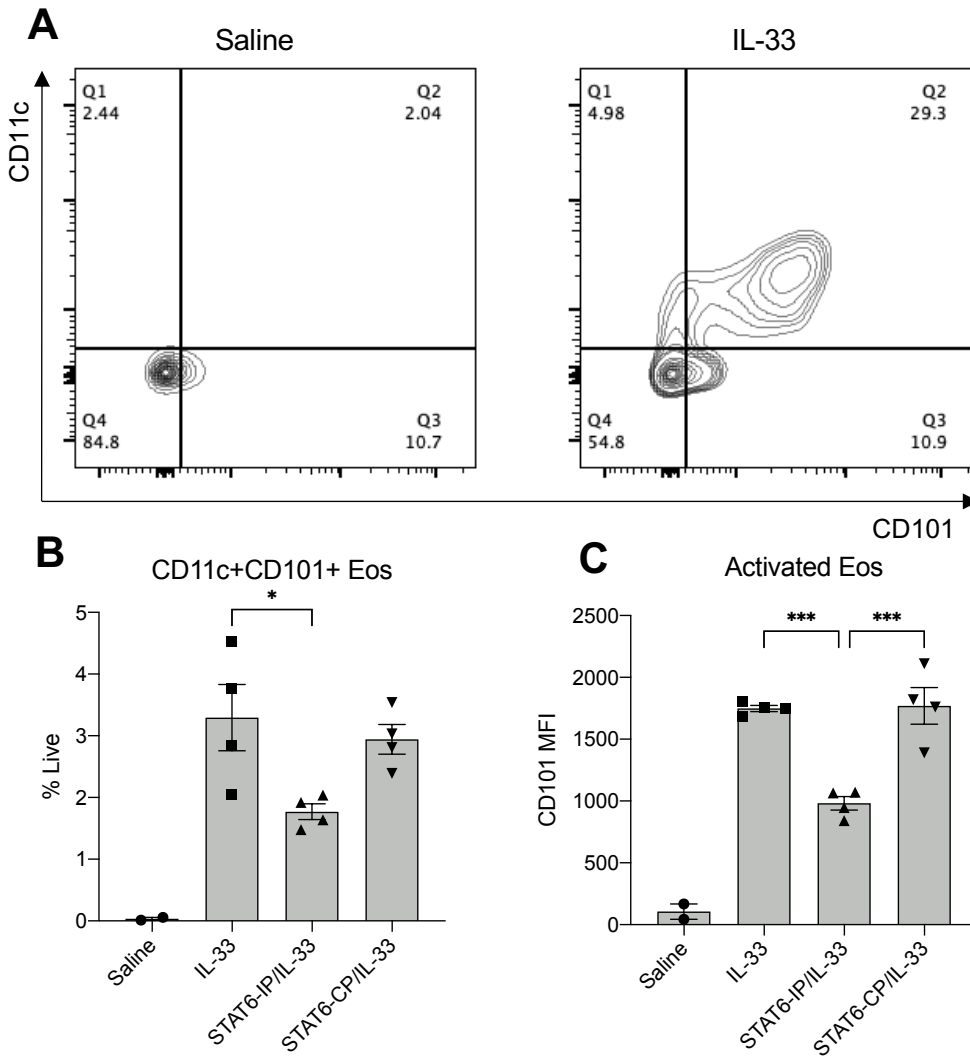


**Table S1. Description of primers used for qPCR.**

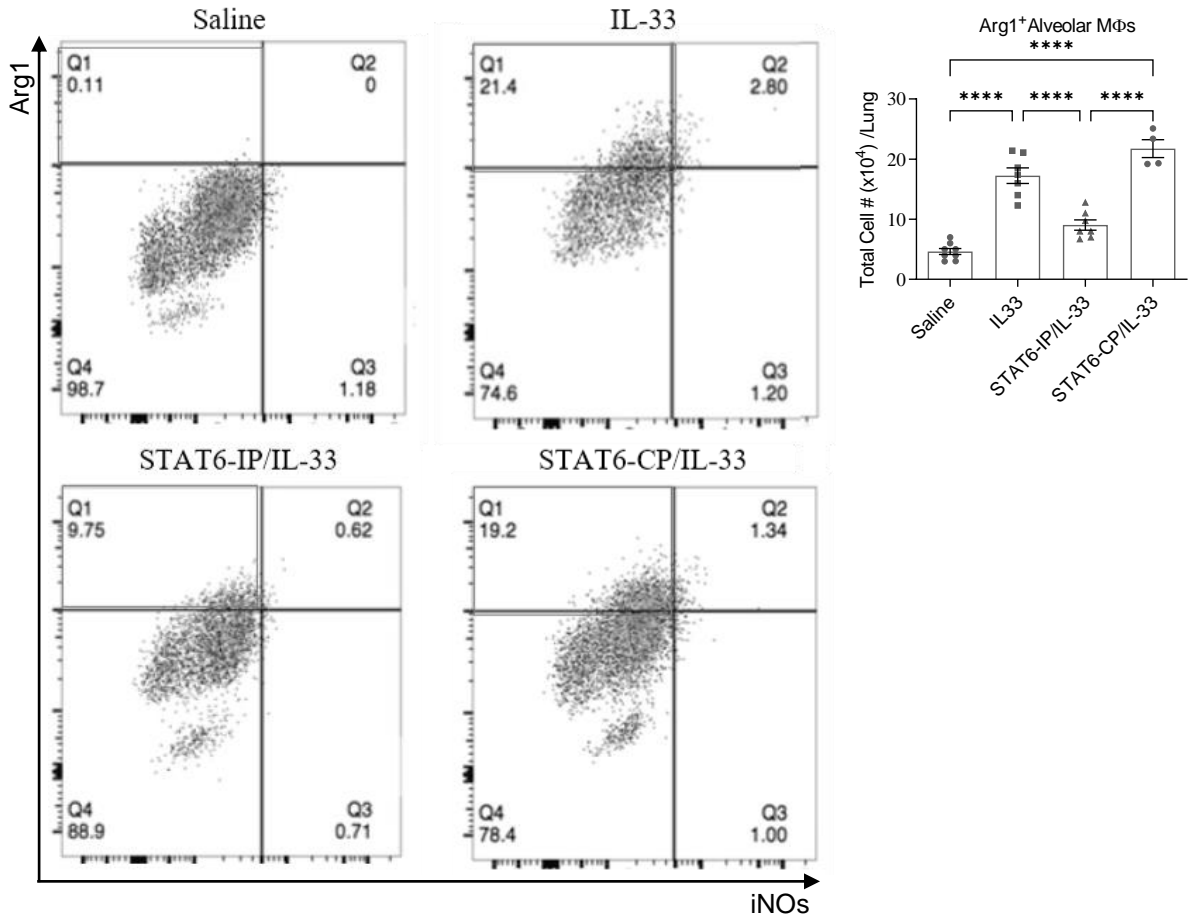
| Gene of Interest | Forward (5'-3')        | Reverse (5'-3')         | Company    |
|------------------|------------------------|-------------------------|------------|
| Arg1             | ACCTGGCCTTTGTTGATGTC   | CAGCACCACTGACTCTTC      | IDT        |
| Fizz1            | CTGGGTTCTCCACCTCTTCAR  | TGCTGGGATGACTGCTACTG    | IDT        |
| Ym1              | CATCAGCAAGACTTGCGTGACR | GGTCCAACTTCCATCCTCCA    | IDT        |
| IL-13            | CCTGGCTCTTGCTTGCCTT    | GGTCTTGTGTGATGTTGCTCA   | IDT        |
| iNOS             | GTCTTTGACGCTCGGAACTGT  | GATGGCCGACCTGATGTTG     | IDT        |
| B-actin          | AGCCATGTACGTAGCCATCC   | CTCTCAGCTGTGGTGGTGAA    | IDT        |
| IL-5             | TCCAATGCATAGCTGGTGATTT | AGCACAGTGGTGAAAGAGACCTT | Invitrogen |

## Figure S1



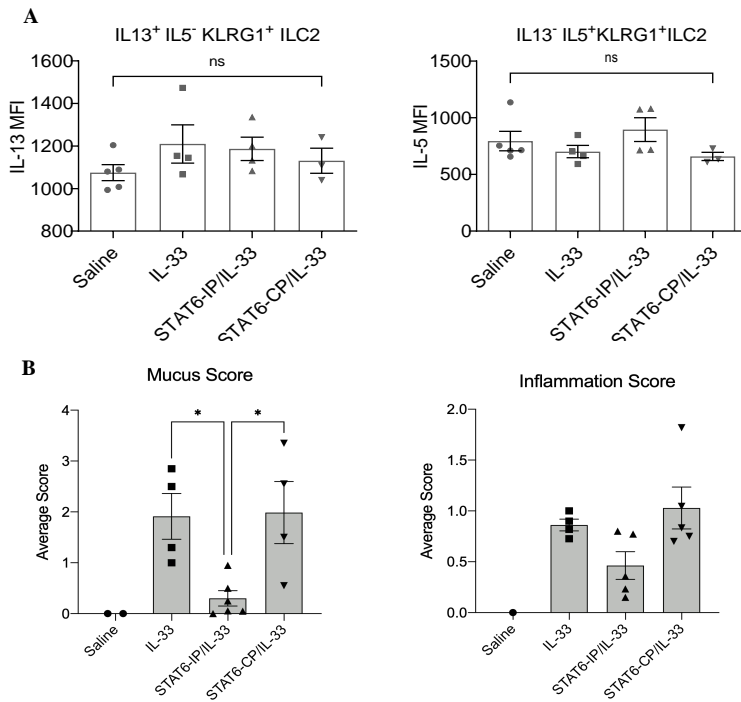
**Fig S1. STAT6-IP reduces IL-33-induced CD101 expression on activated Eos.** Mice were treated as in Fig 1 using 200 $\mu$ g of STAT6-IP and STAT6-CP. Total lung cells were stained for Eos as described in the materials and methods. **(A)** Representative contour plots of expression of CD11c vs CD101 on total lung Eos under saline and IL-33 conditions. **(B)** Frequency of lung Eos expressing both CD11c and CD101 (upper right quadrant [Q2] in A) under different treatment conditions. **(C)** CD101 median fluorescent intensity (MFI) on activated Eos under different treatment conditions. Symbols represent individual mice. Data are from a single experiment using 4 mice/group. Outcomes are presented as mean  $\pm$  SEM assessed by one-way ANOVA followed by Tukey's multiple comparison test. \*  $p < 0.05$ , \*\*\*  $p < 0.001$ .

**Figure S2**



**FIG S2. STAT6-IP reduces IL-33-induced alternatively activated M $\phi$  polarization.** Representative dot plots highlighting alveolar M $\phi$  expressing Arg1 and/or iNOS (left panel), and numbers of Arg1<sup>+</sup> alveolar M $\phi$  (right panel). Symbols represent individual mice. Data are from a combination of 2 independent experiments using 4-5 mice/group in each experiment except for STAT6-CP, which are from a single experiment (n = 4).

## Figure S3



**FIG S3. STAT6-IP does not alter cytokine expression by ILC2 but does reduce mucus production and inflammatory cell infiltration.** (A) ILC2 were gated as in Fig 6A and the MFI of IL-13 and IL-5 were quantified. Data are from one experiment using 3-5 mice/group representative of 2 independent experiments. No significant differences in MFI were found. (B) Semi-quantitative analysis of mucus and inflammatory cell infiltration.