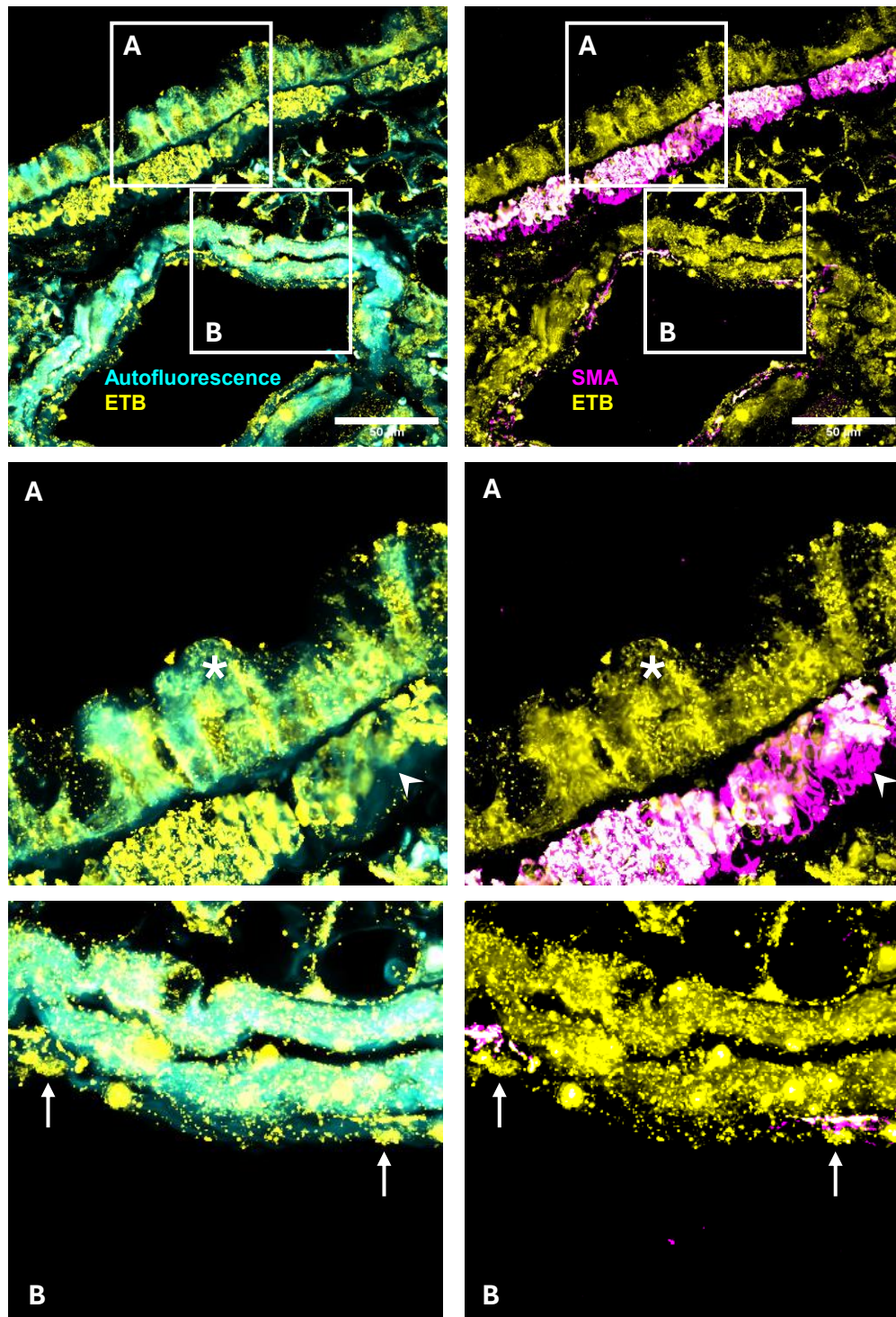


## **SUPPLEMENTARY FIGURES**

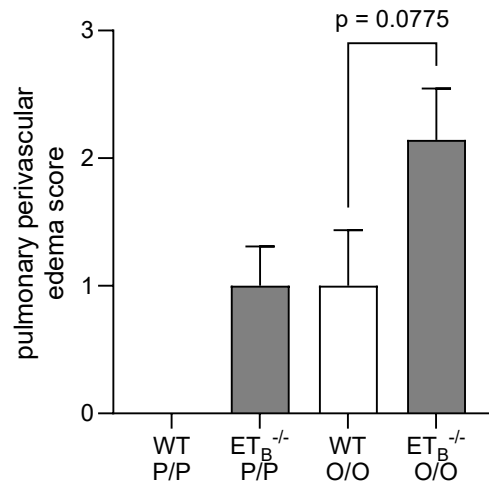
## Supplementary Figure 1



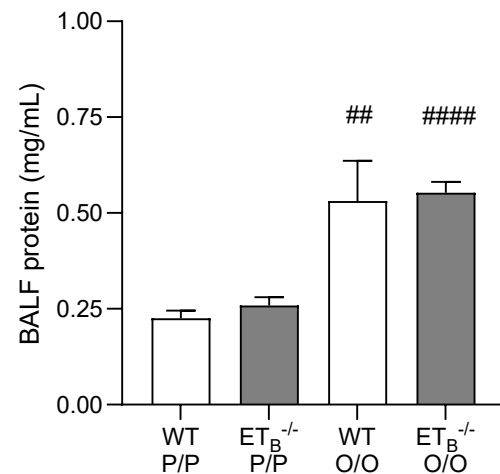
**Supplementary Figure 1: The endothelin receptor B (ET<sub>B</sub>) is expressed in airway smooth muscle cells.** Immunofluorescent analyses in naïve murine wild-type (WT) lungs show ET<sub>B</sub> expression in the airways (**A**) and in the vasculature (**B**). Specifically, ET<sub>B</sub> is expressed smooth muscle cells (arrowheads), airway epithelial cells (asterisks) and endothelial cells (arrows). ET<sub>B</sub> staining (yellow) in airway and vascular smooth muscle cells is revealed by colocalization (merge, white) with alpha-smooth muscle actin (SMA, pink). The scale bar represents 50 μm. Left panel: autofluorescence, ET<sub>B</sub>. Right panel: SMA, ET<sub>B</sub>. Representative images are shown (N = 3).

## Supplementary Figure 2

**A**

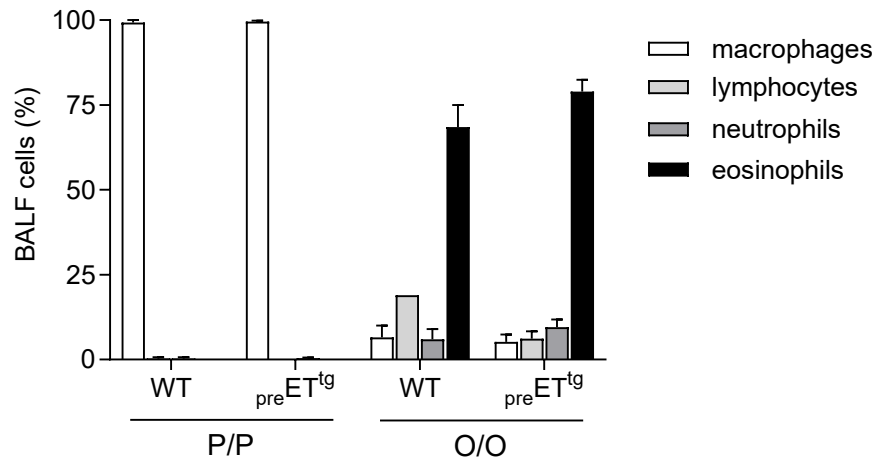


**B**



**Supplementary Figure 2: Bronchoalveolar lavage fluid (BALF) supernatant protein levels are unaltered between rescued ET<sub>B</sub>-deficient (ET<sub>B</sub><sup>-/-</sup>) and WT mice.** Mice were systemically sensitized with ovalbumin (or PBS as sham sensitization) and repeatedly exposed to aerosolized ovalbumin (O/O) or PBS (P/P). Lungs were isolated, fixed and stained with Masson-Goldner trichrome. Lung tissue sections were studied (N = 7) and pulmonary perivascular edema formation was scored (0, no perivascular edema; 1, mild; 2 moderate; 3, pronounced) by an anatomist **(A)**. BALF supernatant total protein levels were quantified (N = 7-9) **(B)**. (A-B) Data are displayed as bar graphs representing mean + SEM and analyzed using an unpaired Student's t-test (parametric data) or Mann-Whitney U test (non-parametric data). # Significant difference between O/O vs. the corresponding P/P group. ##p < 0.01, ####p < 0.0001.

### Supplementary Figure 3



**Supplementary Figure 3: Allergen-induced eosinophilic airway inflammation.** Mice were systemically sensitized with ovalbumin (or PBS as sham sensitization) and repeatedly exposed to aerosolized ovalbumin (O/O) or PBS (P/P). Bronchoalveolar lavage was performed and BALF leukocyte differentials were assessed microscopically (N = 2-5).