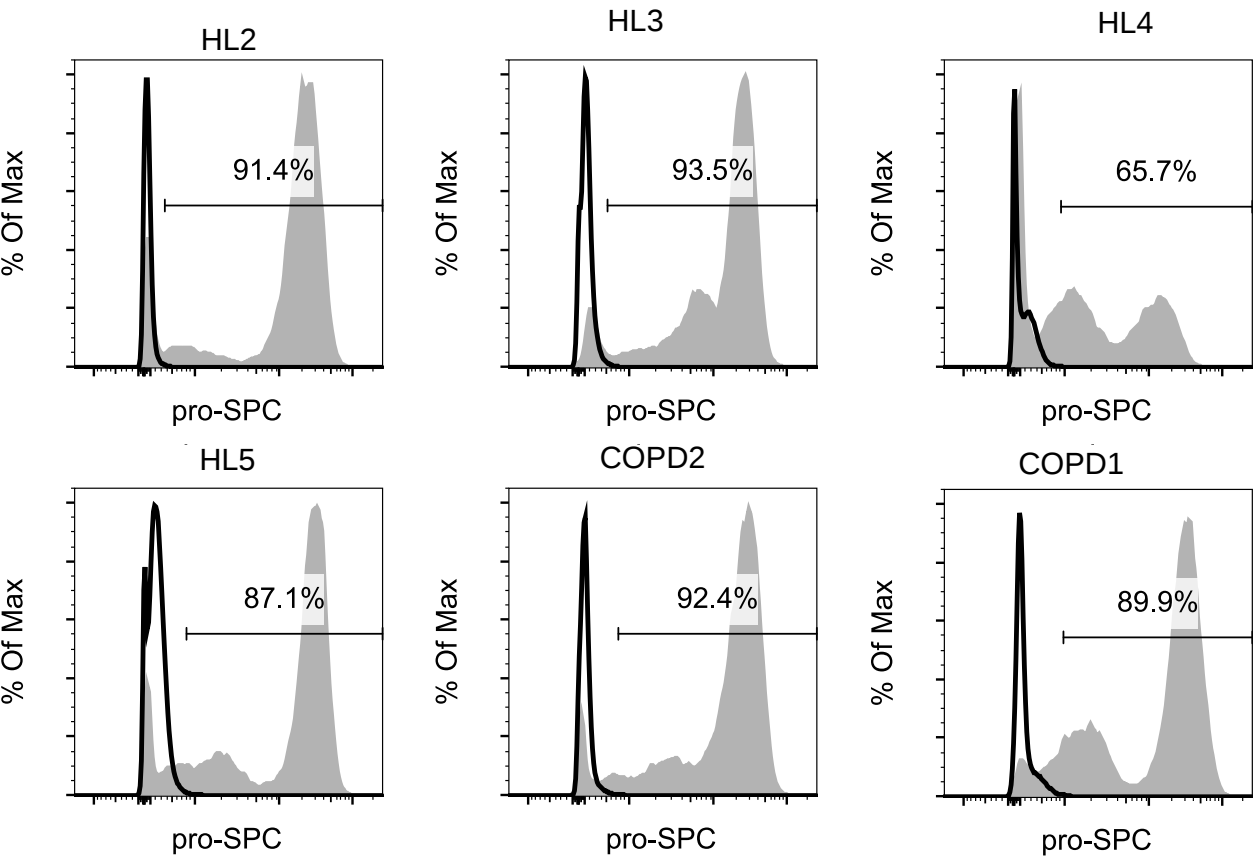
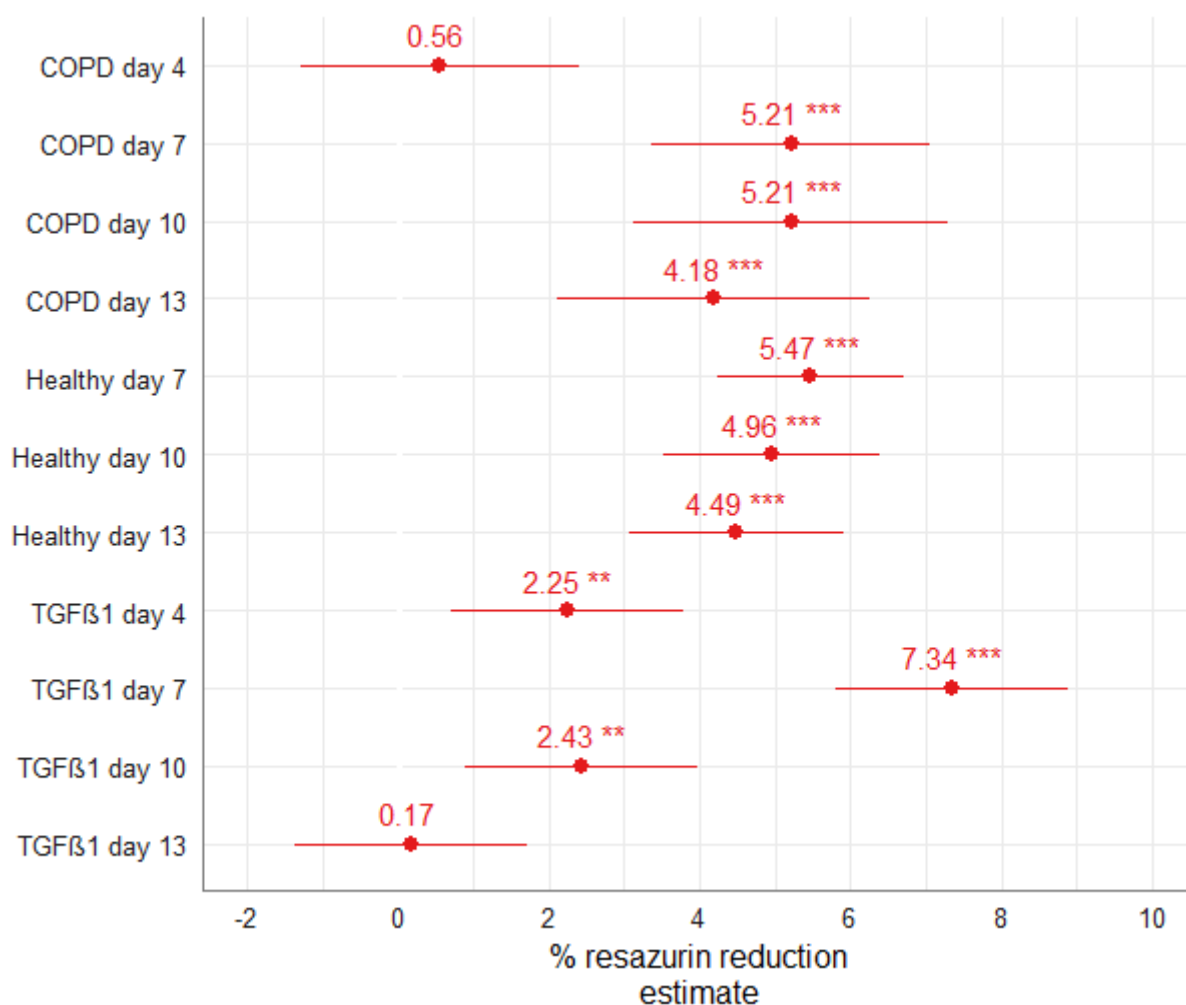


Supplementary figure 1 - Flow cytometry gating for evaluation of purity of thawed HT2-280 positive cells

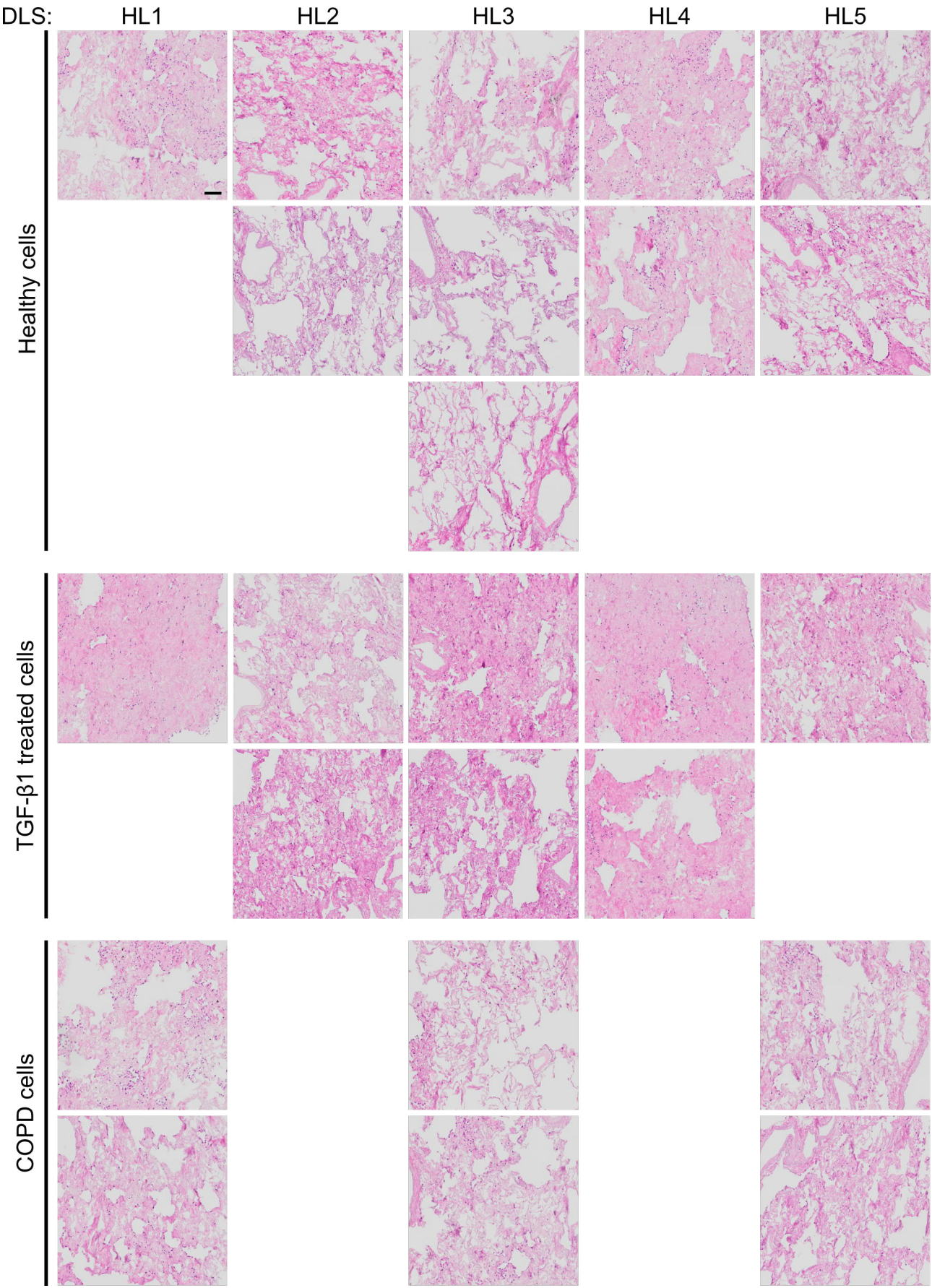


Supplementary figure 2 - Results from linear mixed model of resazurin reduction results

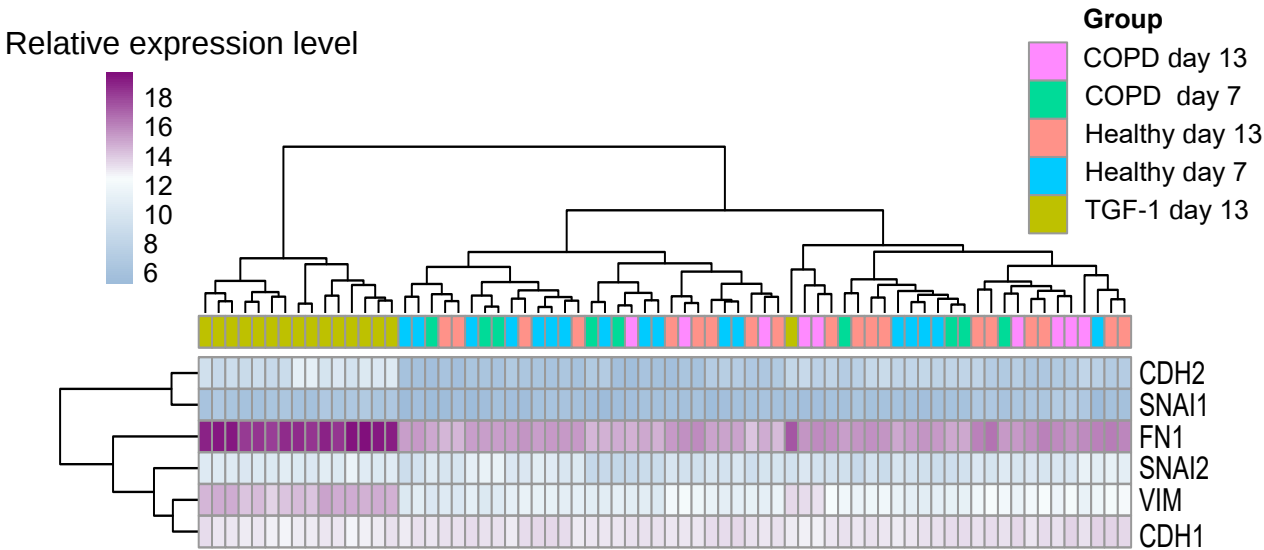


The x-axis show difference from the reference group constituted by Healthy cells day 4 which had a mean reduction percentage of 9.3%. The TGF-β1 day 4 and day 7 values are from before the TGF-β1 exposure for started. Error bars display 95% confidence intervals.

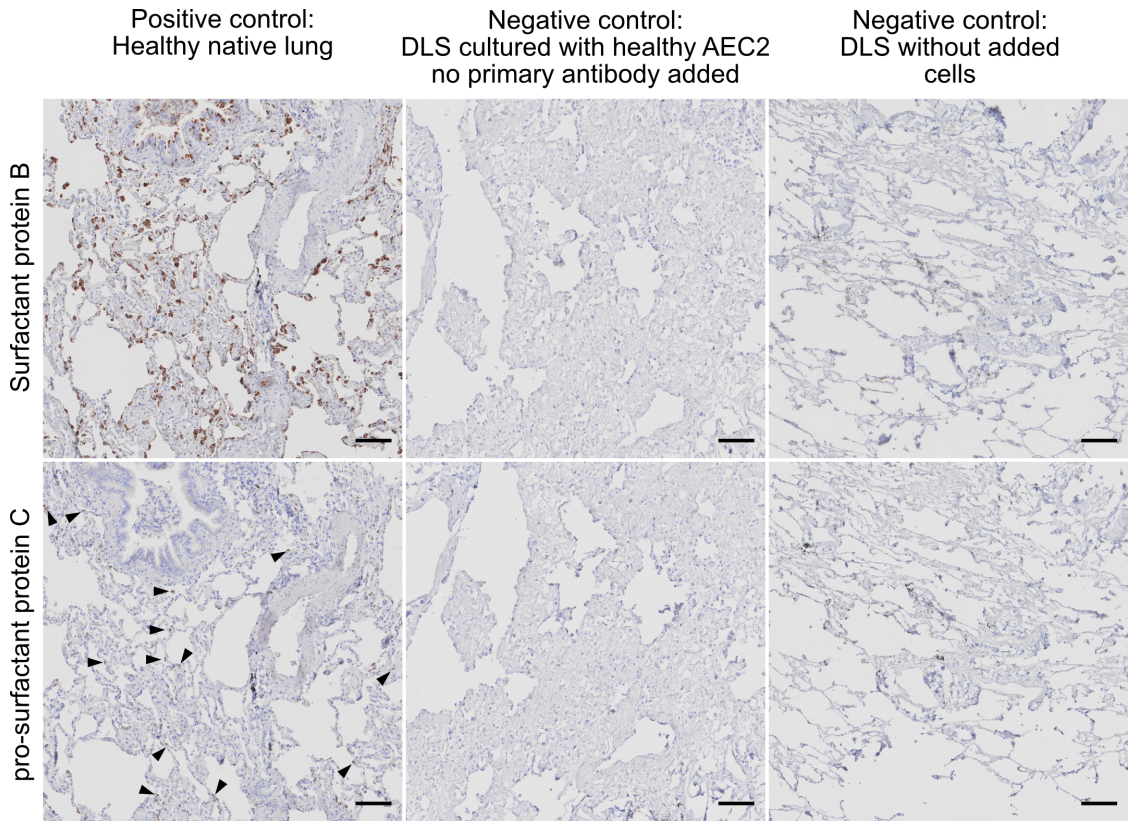
Supplementary figure 3 - Haematoxylin and eosin staining of repopulated lung slices after 13 days of culture



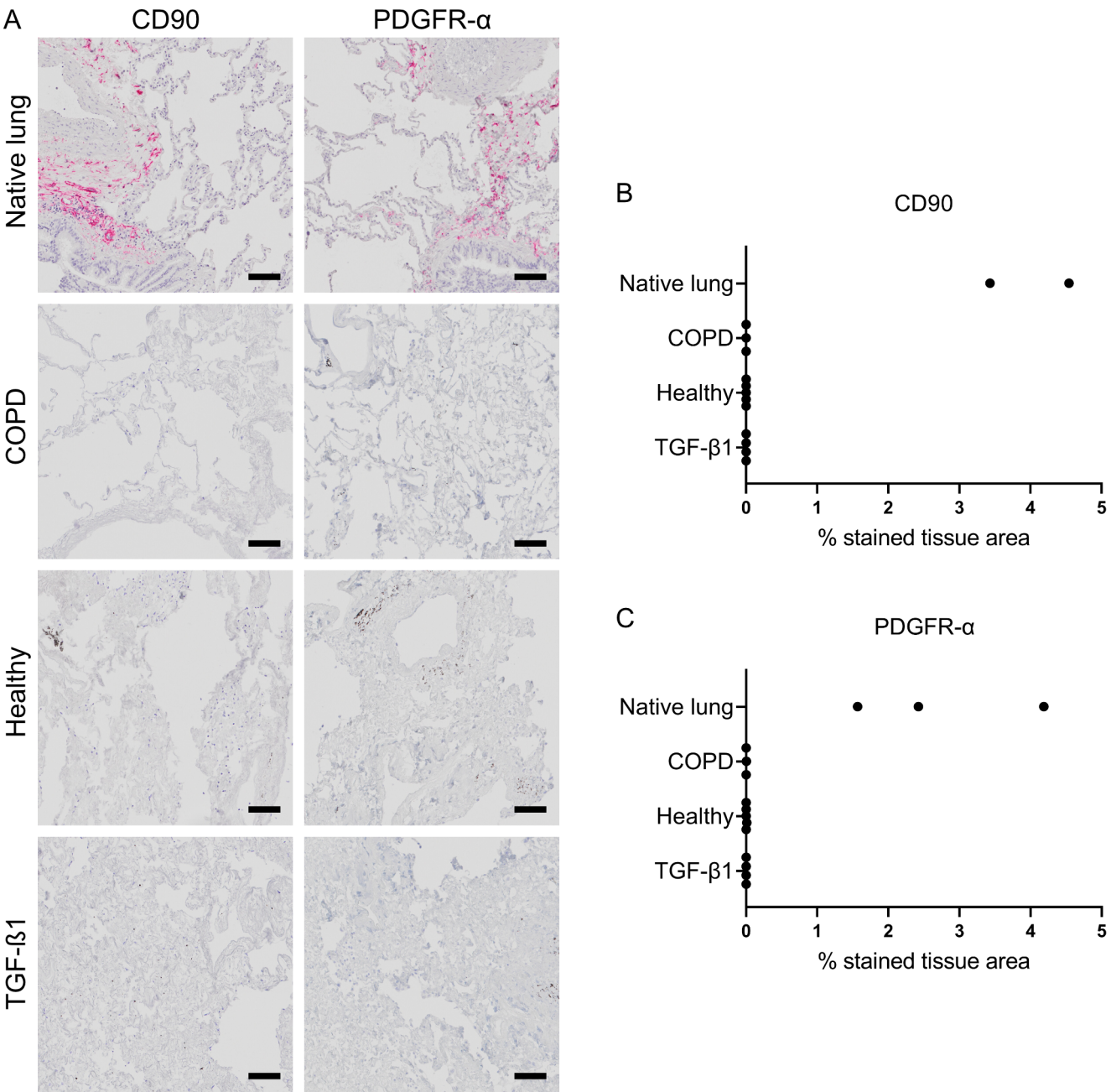
Supplementary figure 4 - Expression of selected EMT markers in cultured AEC cells



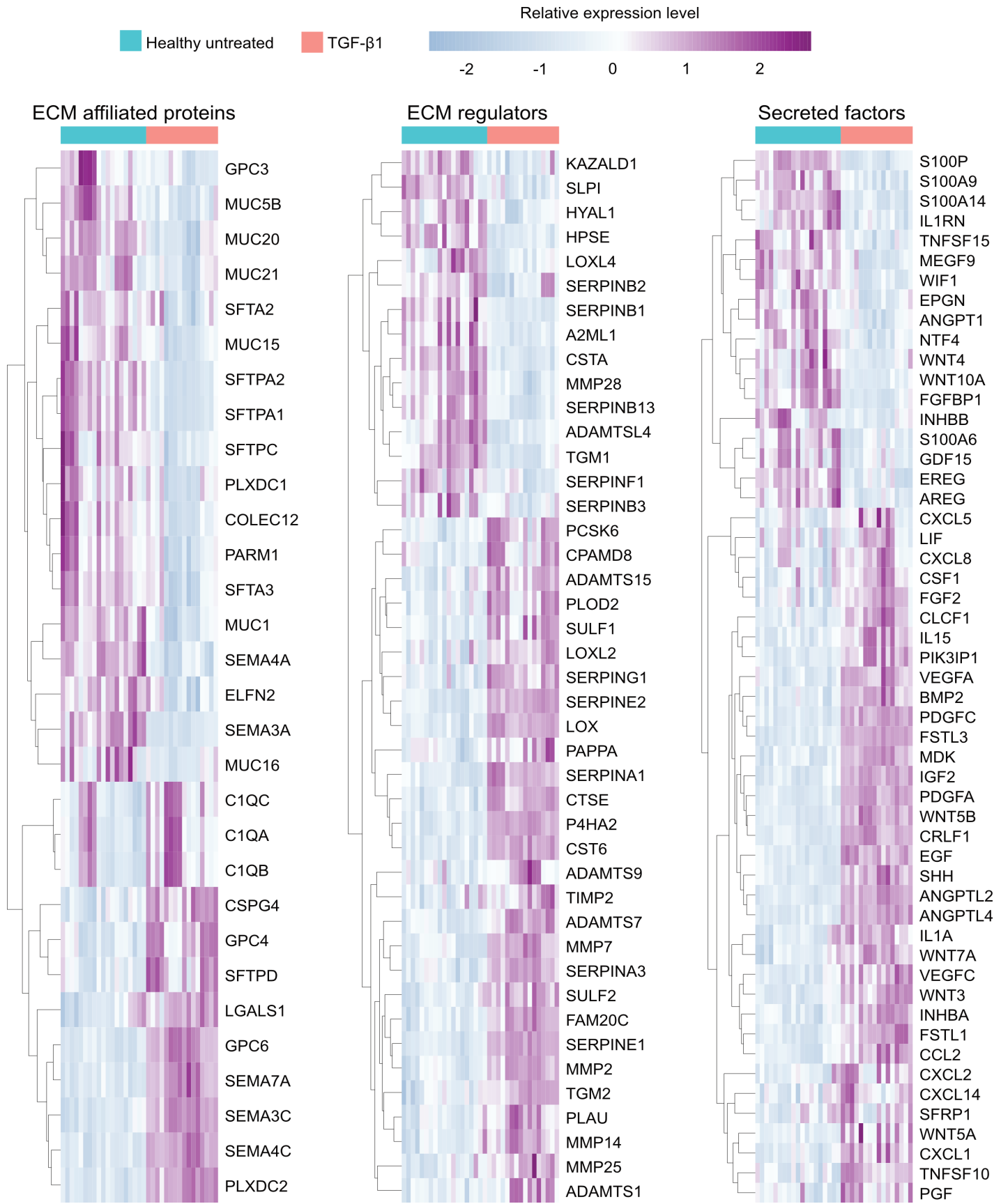
Supplementary figure 5 - Control stainings for surfactant protein B and pro-surfactant protein C related to the stainings in main figure 2-C. Arrowheads point at some of the pro-surfactant protein C positive cells.



Supplementary figure 6 - IHC stainings for mesenchymal markers in repopulated lung slices after 13 days of culture. Representative images of stained sections **(A)**, positive staining in red. Results from quantification of stained tissue area for CD90 **(B)** and platelet derived growth factor receptor α (PDGFR- α) **(C)**. n = 2 for native lungs, each datapoint represent one cell donor in **B** & **C**.



Supplementary figure 7 - Differentially expressed matrisome associated genes in TGF-β1 treated AEC



Supplementary figure 8 - Differentially expressed matrisome associated proteins in TGF-β1 treated AEC

