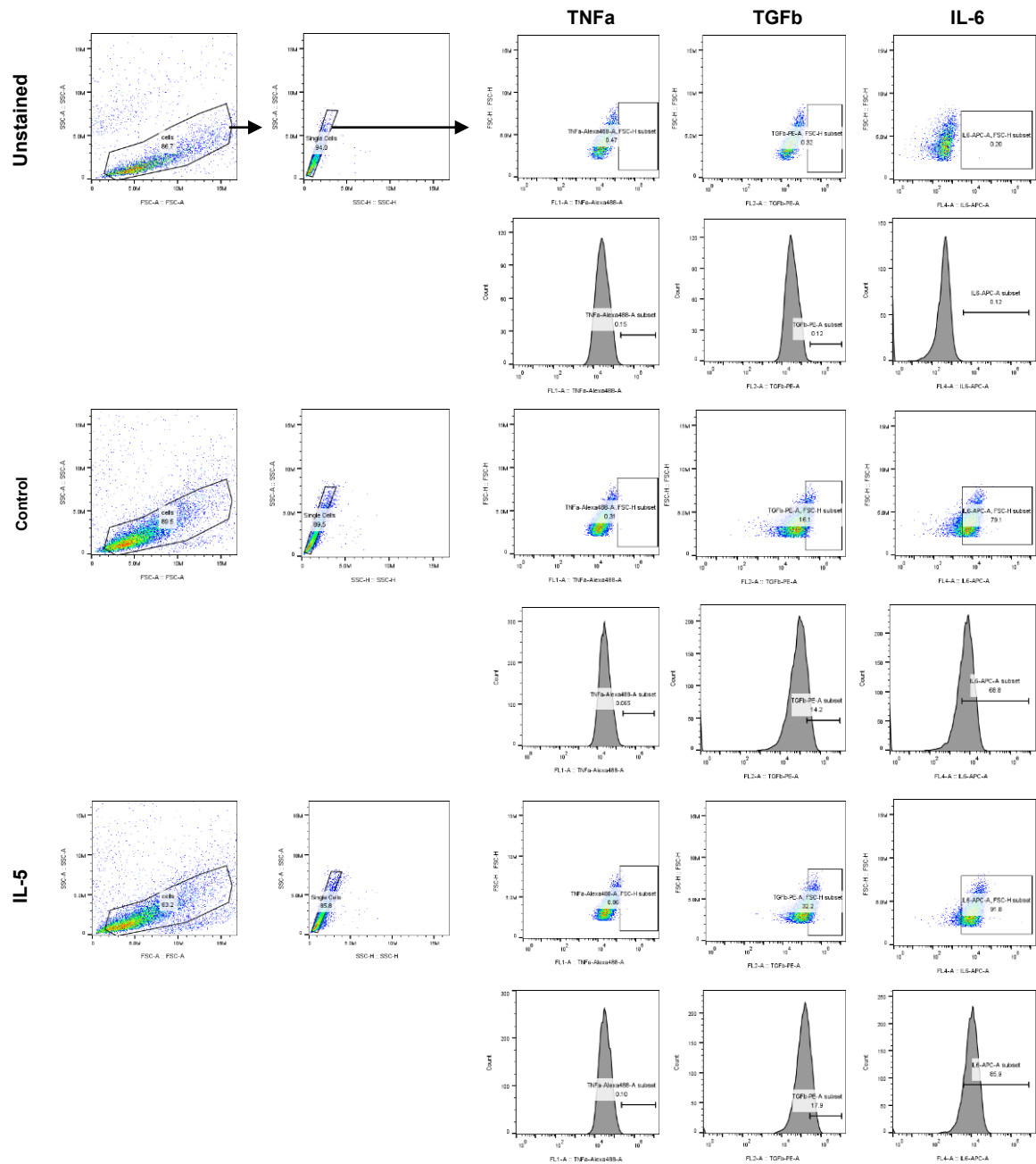


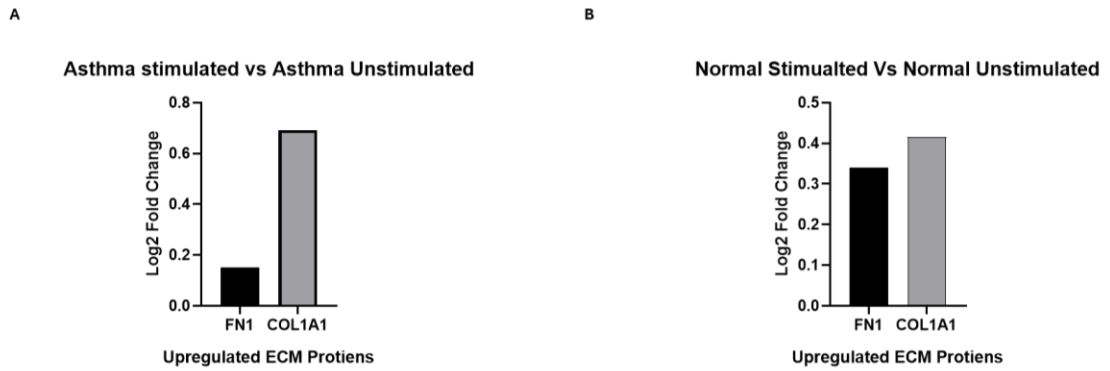
Supplementary Figure 1.



Supplementary Figure 1: Representative gating strategy for intracellular cytokine staining of lung fibroblasts following IL-5 stimulation.

Cells were first gated based on forward scatter (FSC-A) and side scatter (SSC-A) to exclude debris. Singlets were identified by FSC-A, and live cells were selected using viability dye exclusion. Cytokine-positive populations were then gated based on fluorescence intensity. This strategy was applied based on the control and copied to the other samples; each experiment had its own controls.

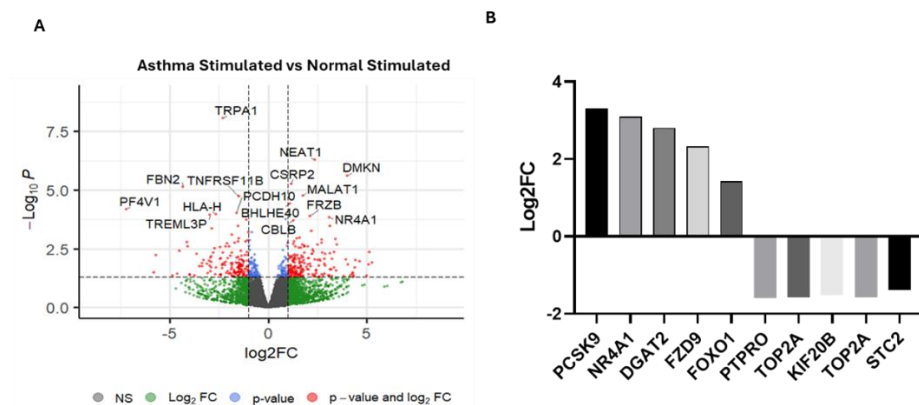
Supplementary Figure 2



Supplementary figure 2: FN1 and Col1A1 as validation controls.

(A) The expression of FN1 and Col1A1 in asthma stimulated with IL-5 based on Log2Fold change. (B) The expression of FN1 and Col1A1 in Normal stimulated with IL-5 based on Log2Fold change.

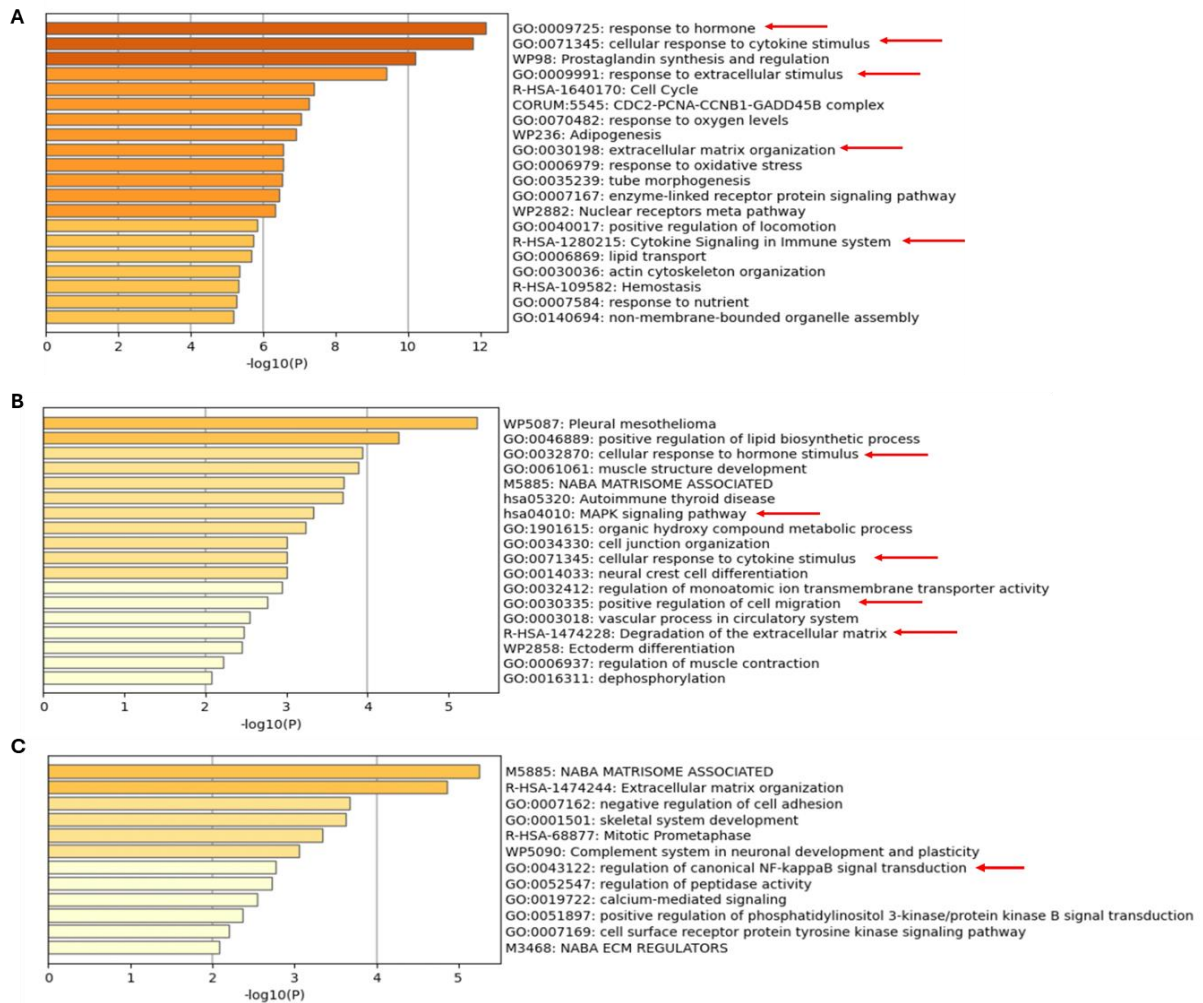
Supplementary Figure 3



Supplementary figure 3: Lung derived Fibroblasts stimulated with IL-5 exhibit a Distinct Transcriptional Profiles.

(A) Volcano plots of differentially expressed genes between asthmatic and normal derived fibroblasts stimulated with IL-5. (B) Genes that are differentially expressed in response to IL-5 stimulation based on the obtained Log2FC.

Supplementary Figure 4



Supplementary figure 4: Gene set enrichment analysis of fibroblasts post stimulation with IL-5.

(A) Enriched pathways in asthmatic derived fibroblasts post IL-5 stimulation (B) Upregulated pathways in asthma Stimulated based on $\log_2FC > 2$ (C) Downregulated Pathways in asthma Stimulated based $\log_2FC < 2$.

