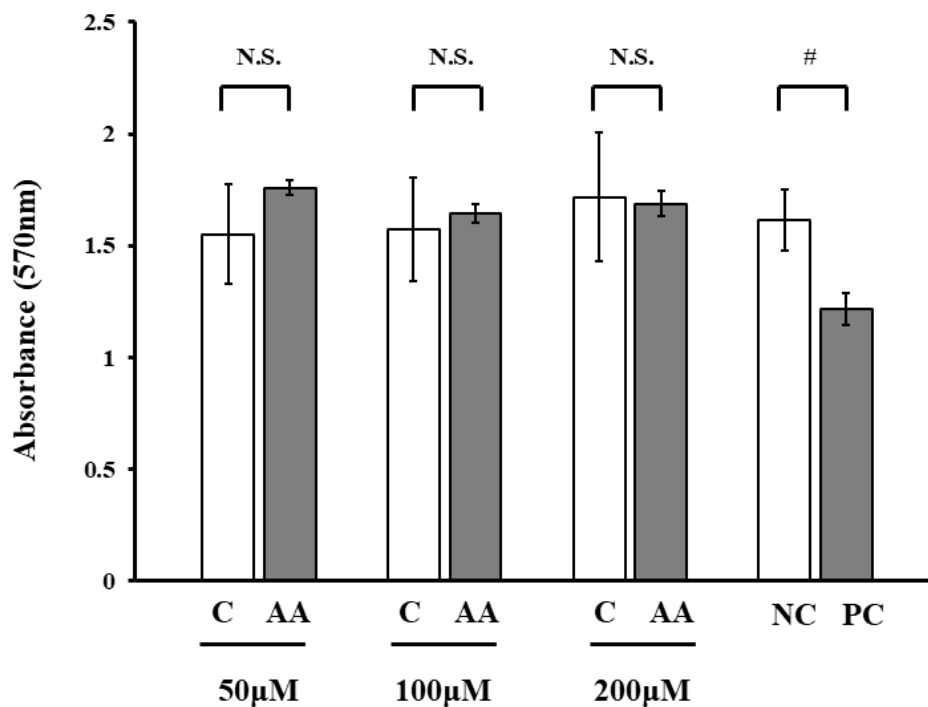


Extracellular stimulation of lung fibroblasts with arachidonic acid increases interleukin 11 expression through p38 and ERK signaling

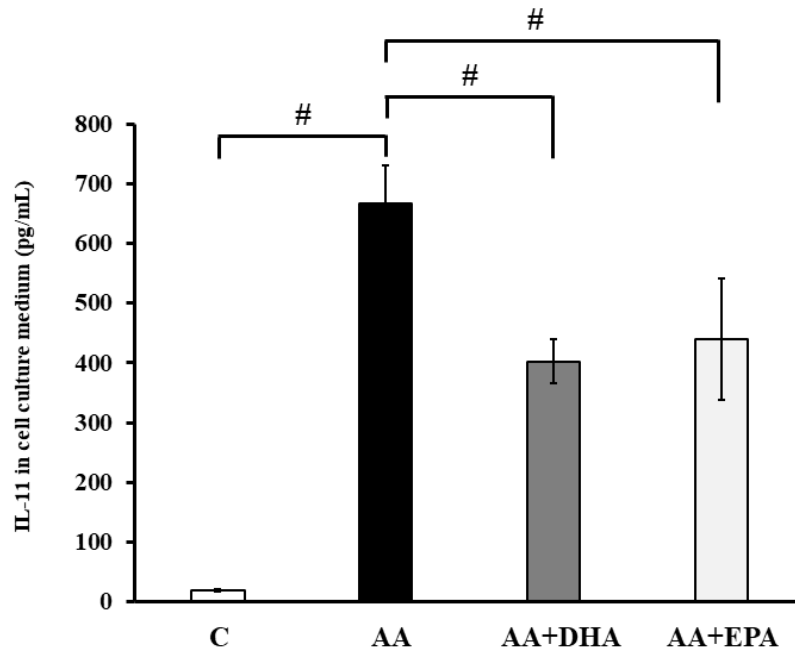
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Supplementary material



Supplementary Figure 1. AA does not exert any cytotoxic effect on NHLFs.

The cytotoxic effect of AA on NHLFs was examined using MTT assay. NHLFs were cultured in medium containing AA at the concentrations of 50, 100, and 200 μ M for 24 h. We used cells treated with saponin at concentration of 10 μ g/ml for 24 h as positive controls and nontreated cells as negative controls, respectively. Following AA treatment, 10 μ l of MTT labeling reagent was added to each well and incubated at 37°C for 4 h to solubilize the formazan derivative. The absorbance was measured at 570 nm. Data represent mean $\pm$ SD (n = 3). NHLF: normal human lung fibroblast; C, control; AA, arachidonic acid; NC, negative control; PC, positive control. #, p value < 0.05. N.S., not significant.



Supplementary Figure 2. Suppressive effect of DHA or EPA on AA-induced secretion of IL-11.

NHLFs were cultured in the presence of AA (200 μ M), AA + DHA (each 200 μ M), and AA + EPA (each 200 μ M) for 24 h, and IL-11 concentrations in the culture medium were measured by ELISA. Data represent mean $\pm$ SD (n = 3). C, control; AA, arachidonic acid; DHA, docosahexaenoic acid; EPA, eicosapentaenoic acid. #, p value < 0.05.