Oxidative stress enhances the expression of IL-33 in human airway epithelial cells

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Additional file

Figure legends

Figure S1. Effect of mitogen-activated protein kinase (MAPK) inhibitors in H_2O_2-potentiated phosphorylation of MAPK (p38, JNK, ERK1/2). The phosphorylation of p38, JNK and ERK was evaluated with immunoblotting in NCI-H292 cells. Pretreatment with MAPK inhibitor, p38 MAPK inhibitor (SB203580), JNK inhibitor (SP600125) or ERK1/2 inhibitor (U0126) inhibited the phosphorylation of p38-MAPK (A), JNK (B) and ERK1/2 (C) respectively. The data are representative of three independent experiments.

Figure S2. Effect of NF-κB inhibitors in H_2O_2-potentiated IL-33 expression. (A, B) IKK-2 inhibitor (SC-514) or IκBα inhibitor (BAY11-7085) was added 1 h before H_2O_2 treatment of NCI-H292 cells. After 4 h, whole cells were harvested and assayed for the IL-33 gene expression by real-time Polymerase Chain Reaction (PCR). Values are the mean ± SEM (n = 3). ***$p < 0.001$ compared with the values of vehicle-treated cells.

Figure S1

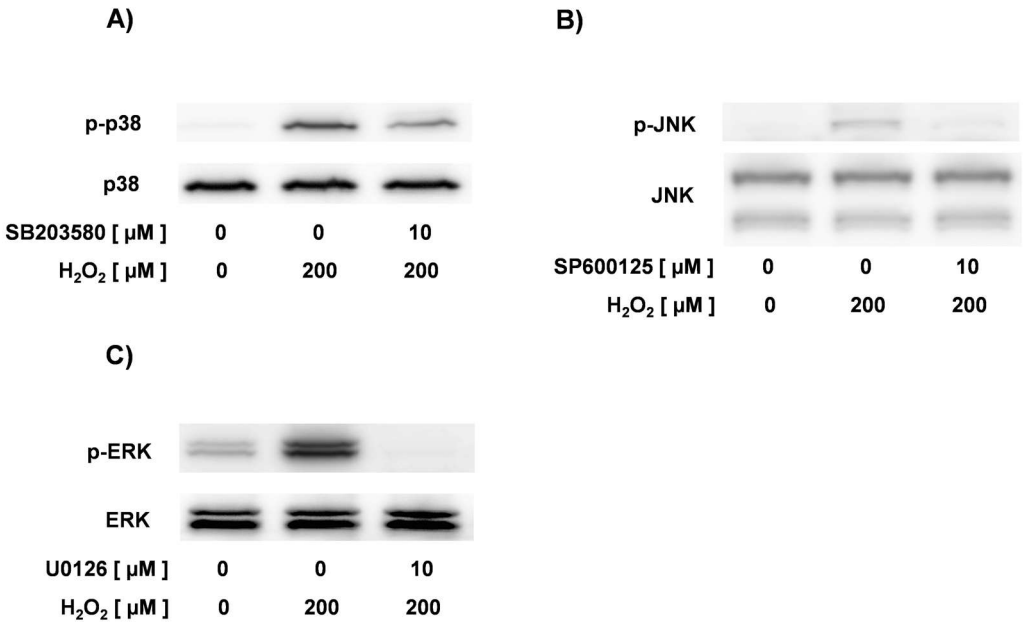
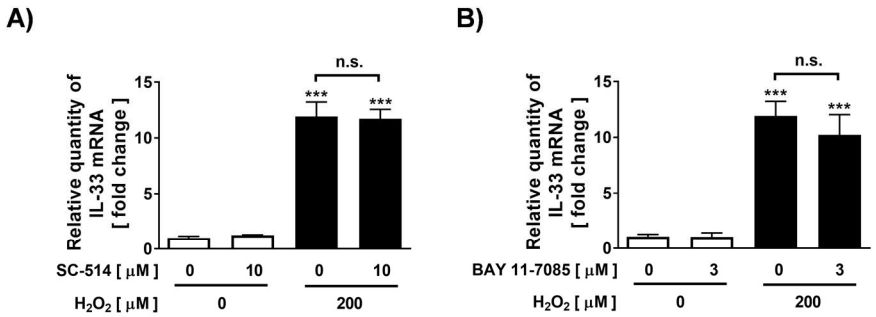

A)
p-p38
p38
SB203580 [μM] 0 0 10
H2O2 [μM] 0 200 200
B)
p-JNK
JNK
SP600125 [μM] 0 0 10
H2O2 [μM] 0 200 200
C)
p-ERK
ERK
U0126 [μM] 0 0 10
H2O2 [μM] 0 200 200

Figure S2


A)
B)
Relative quantity of IL-33 mRNA [fold change]
15
10
5
0
n.s.
***
***
SC-514 [μM]
0
10
0
10
H2O2 [μM]
0
200
BAY 11-7085 [μM]
0
3
0
3