FIG. 1

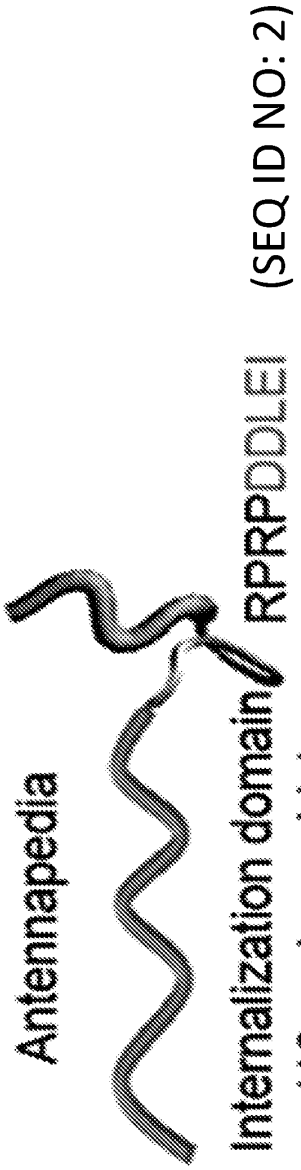

Cx43 C-terminus
Antennapedia
Internalization domain
(16 amino acids)
RPRPDDLEI
(SEQ ID NO: 2)

FIG. 2

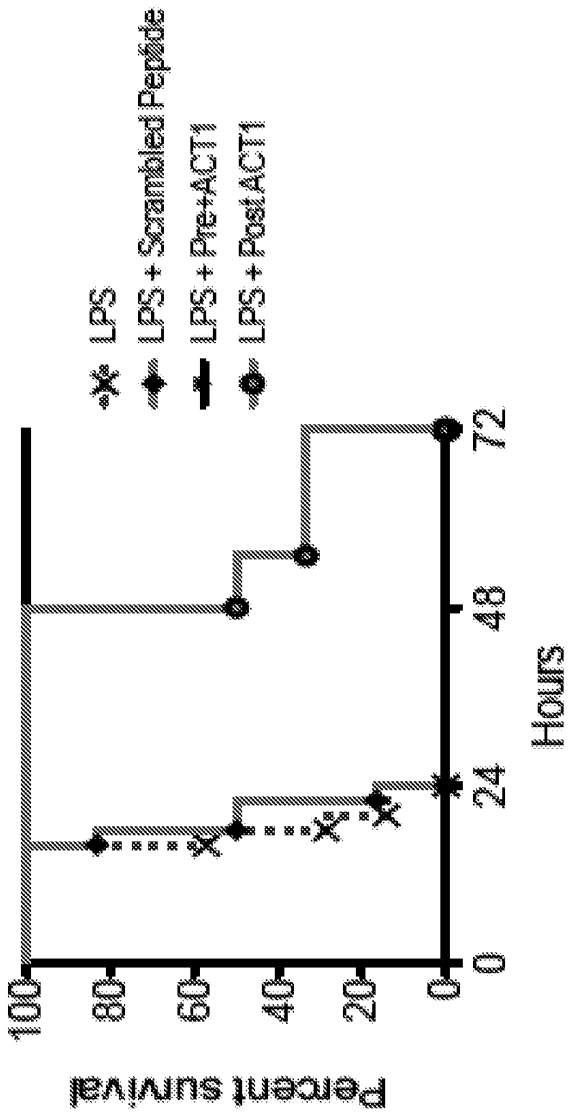

LPS
LPS + Scrambled Peptide
LPS + Pre-ACT1
LPS + Post ACT1
Percent survival
100
80
60
40
20
0
0
24
48
72
Hours

FIG. 3

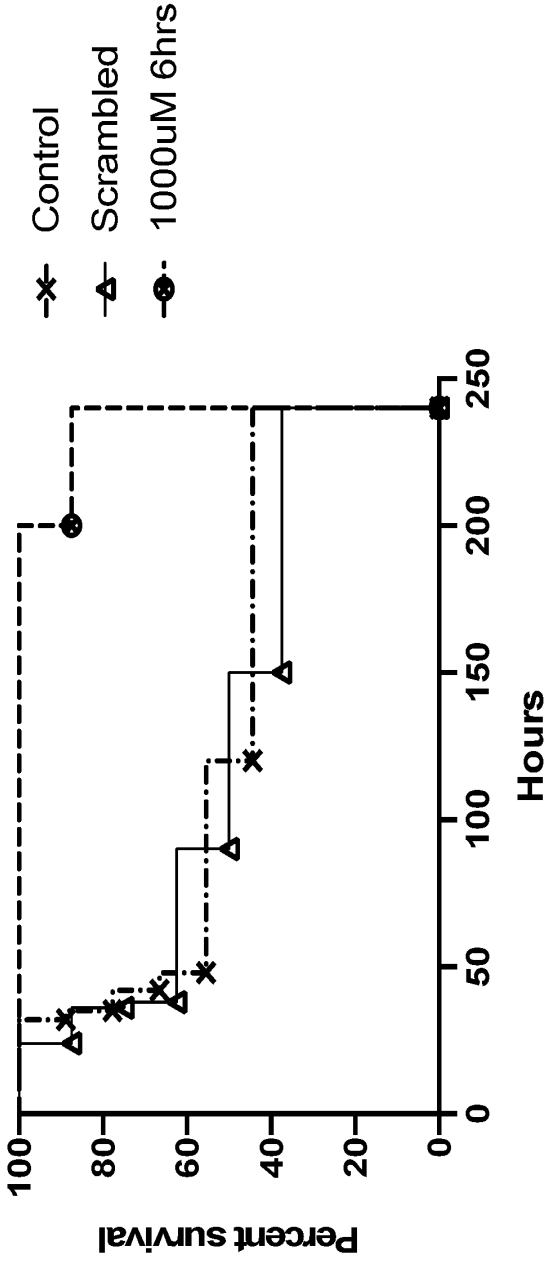

Control
Scrambled
1000uM 6hrs
Percent survival
100
80
60
40
20
0
0
50
100
150
200
250
Hours

FIG. 4

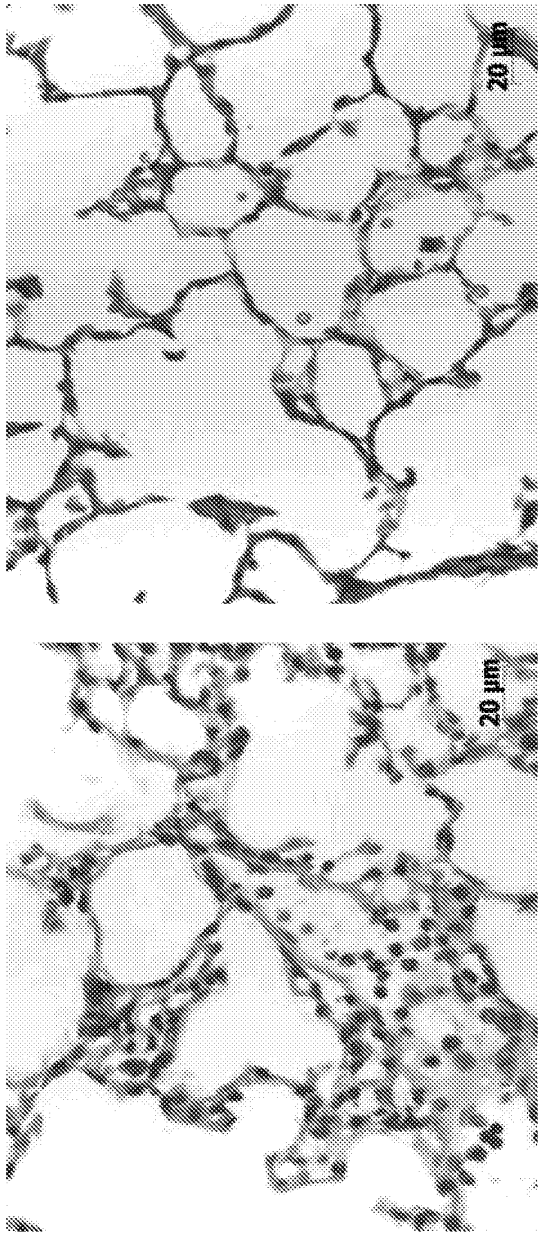


FIG. 5

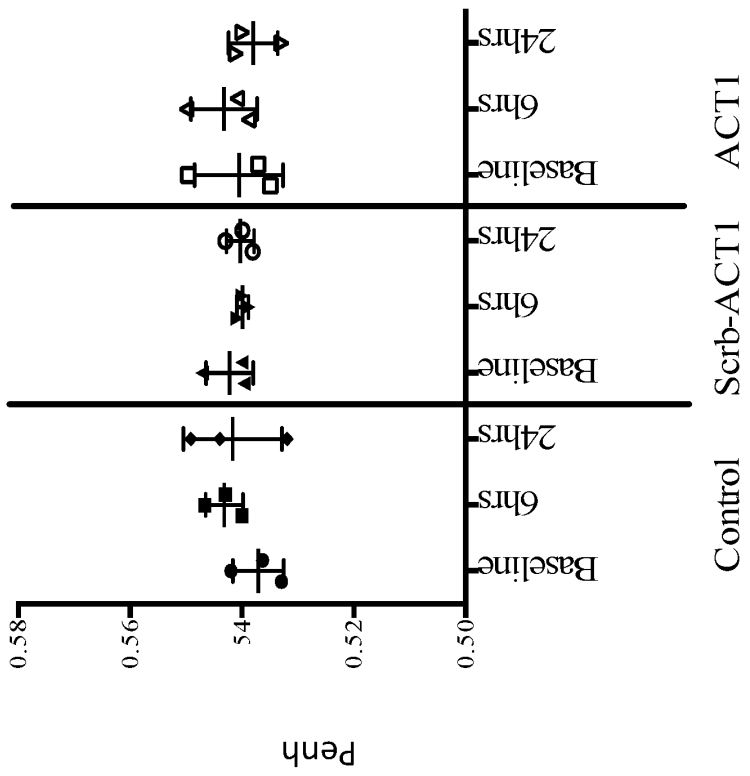

Penh
0.58
0.56
54
0.52
0.50
Baseline
6hrs
24hrs
Baseline
6hrs
24hrs
Control
Scrb-ACT1
Baseline
6hrs
24hrs
ACT1

FIG. 6A

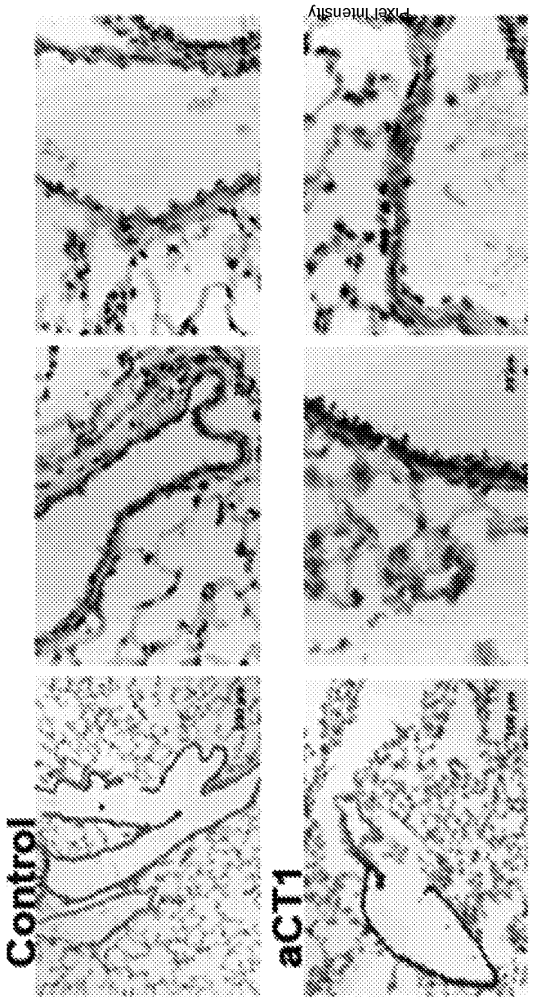

Control
aCT1
Pixel Intensity

FIG. 6B

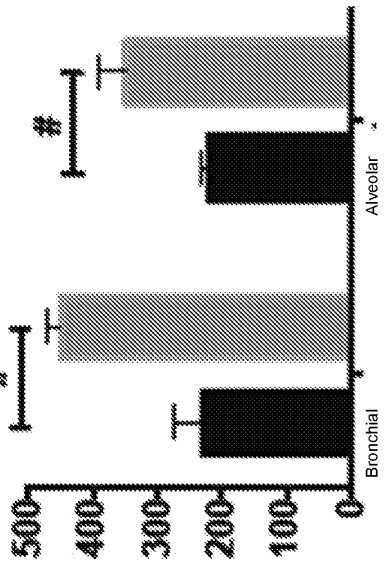

Control
aCT1
#
#
500
400
300
200
100
0
Bronchial
Alveolar

FIG. 7

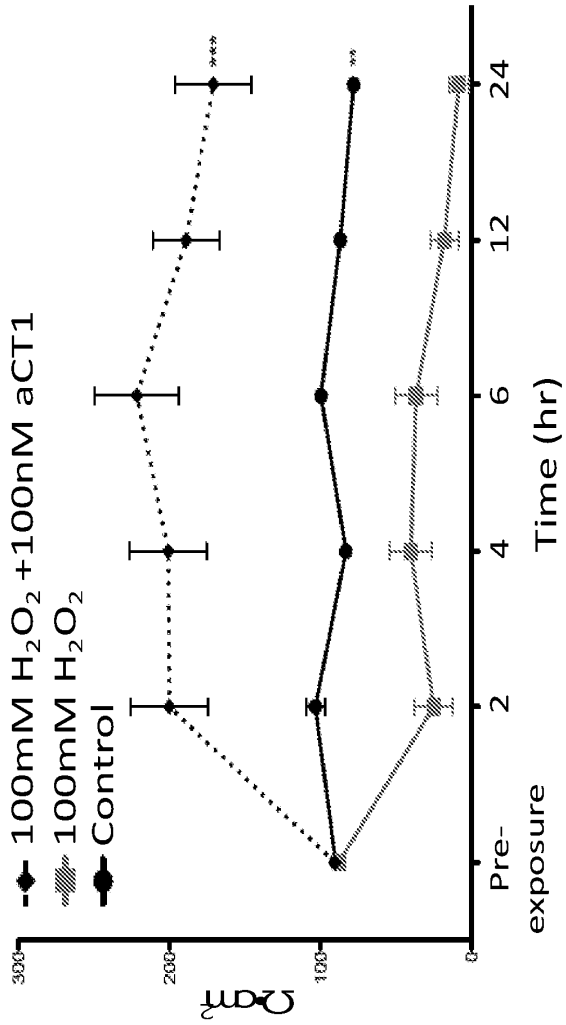
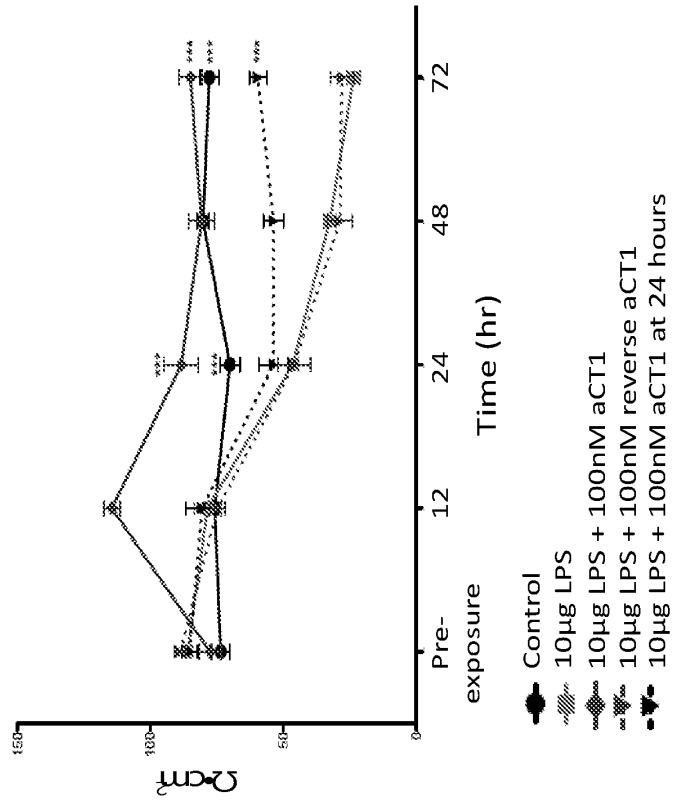

100mM H_2O_2 +100nM aCT1
100mM H_2O_2
Control
Count
300
200
100
0
***
**
Pre-exposure
2
4
6
12
24
Time (hr)

FIG. 8


2-cm²
150
100
50
0
Pre-exposure
12
24
48
72
Time (hr)
Control
10µg LPS
10µg LPS + 100nM aCT1
10µg LPS + 100nM reverse aCT1
10µg LPS + 100nM aCT1 at 24 hours