Electronic Supplementary Material

Primer sequences using in this study were as follows.

(1) IL8: (F) 5’-TTTTGCCAAGGAGTGCTAAAGA-3’;

(R) 5’-AACCCTCTGCACCCAGTTTTC-3’.

(2) MUC5AC: (F) 5’-ACGGCACCTACTACACCTTCCTG-3’;

(R) 5’-CCGCACCGCAGAAGTAGTTGTC-3’.

(3) GAPDH: (F) 5’ -CCT CCA AGG AGT AAG ACC CC-3’

(R) 5’ -AGG GGT CTA CAT GGC AAC TG-3’ .

Supplementary figure 1

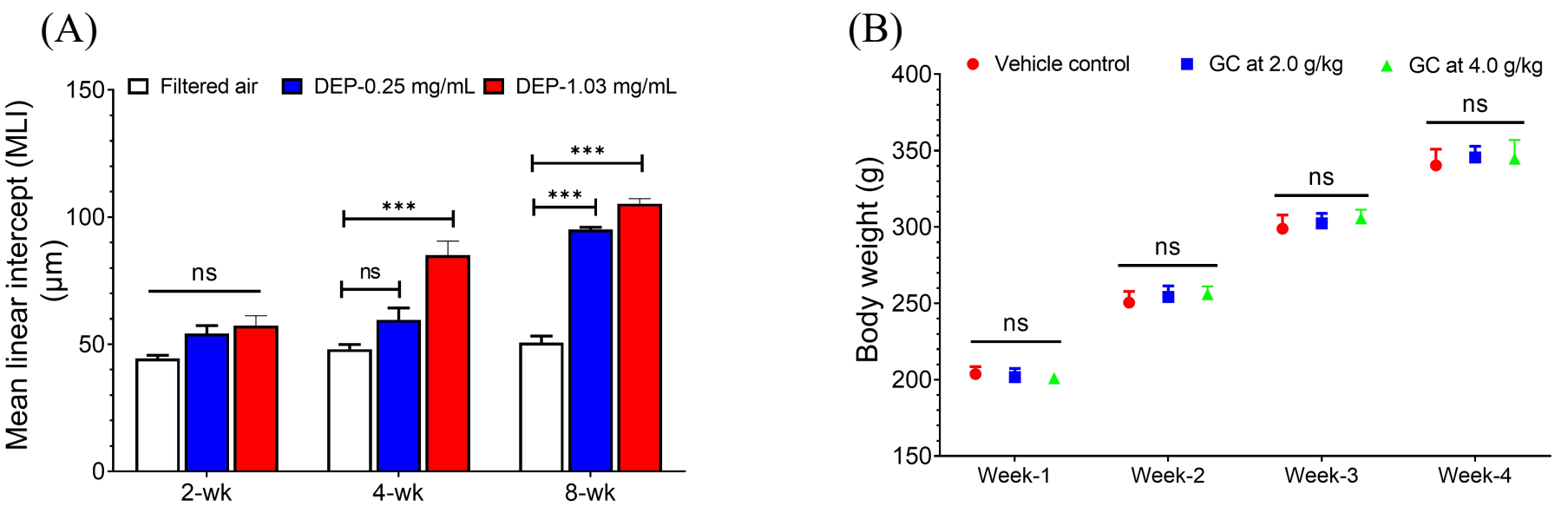

Fig. S1: (A) Compared to the filtered air control, rat exposed to DEP at both levels for 2-week did not increase the MLI (an indicator of emphysema). DEP exposure for 4-week, at the level of 1.03 mg/m^3, resulted in a significant increase of MLI in alveoli (emphysema-like change). While DEP exposure for 8-week, at both levels (0.25 mg/m^3 and 1.03 mg/m^3), induced significant increases in MLI. ns, not significant; *** $p < 0.001$. n=6 rats/group. (B) From week-1 to week-4, the body weight in rats treated with GC extract at both dosages did not differ significantly from that of the vehicle control. ns, not significant. n=6 rats/group.

Supplementary figure 2

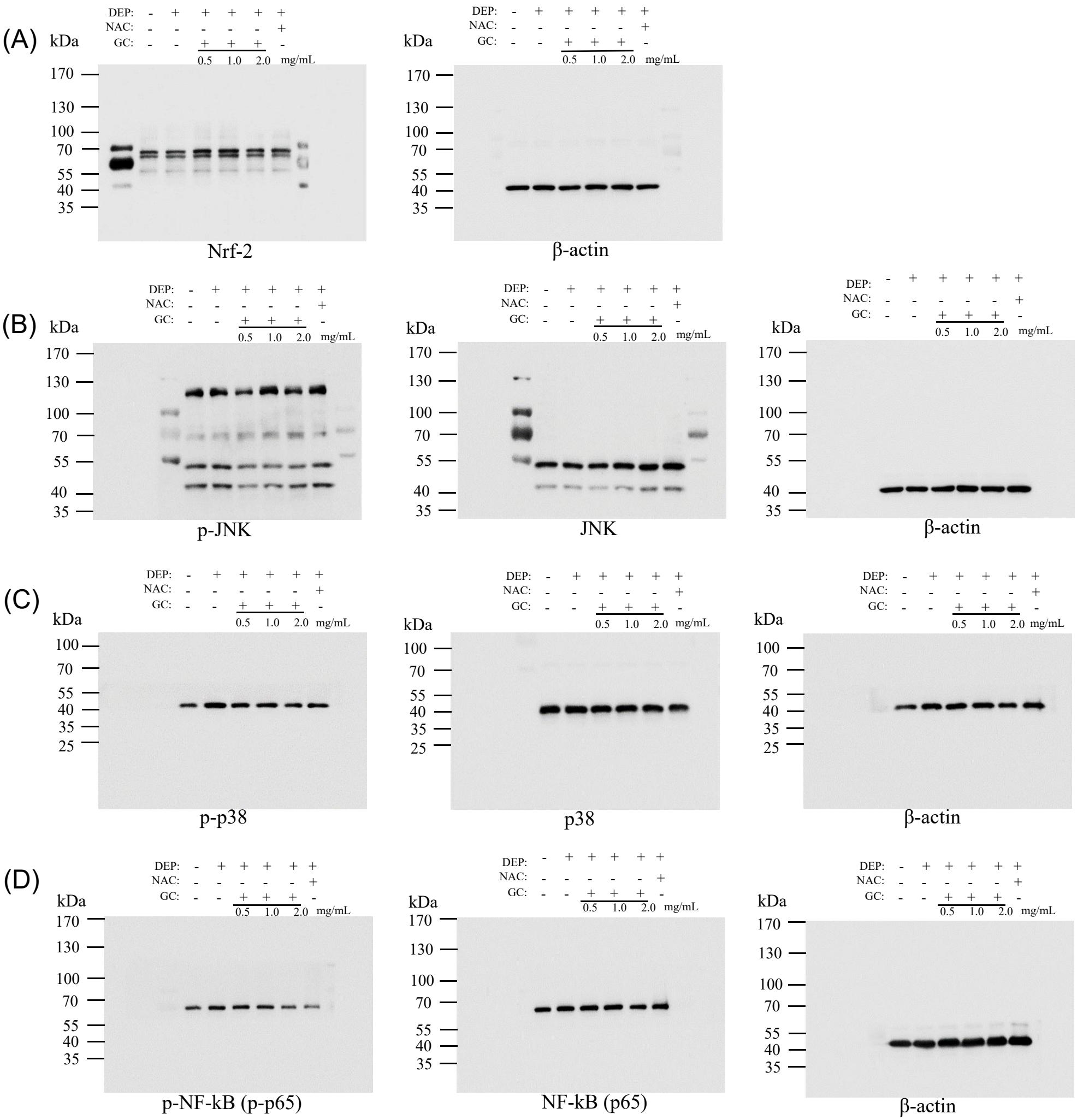

Fig. S2: Original data of western blots for Nrf-2 (A), p-JNK/JNK (B), p-P38/P38 (C) and p-NF-kB (p-p65)/ NF-kB (p65) (D).