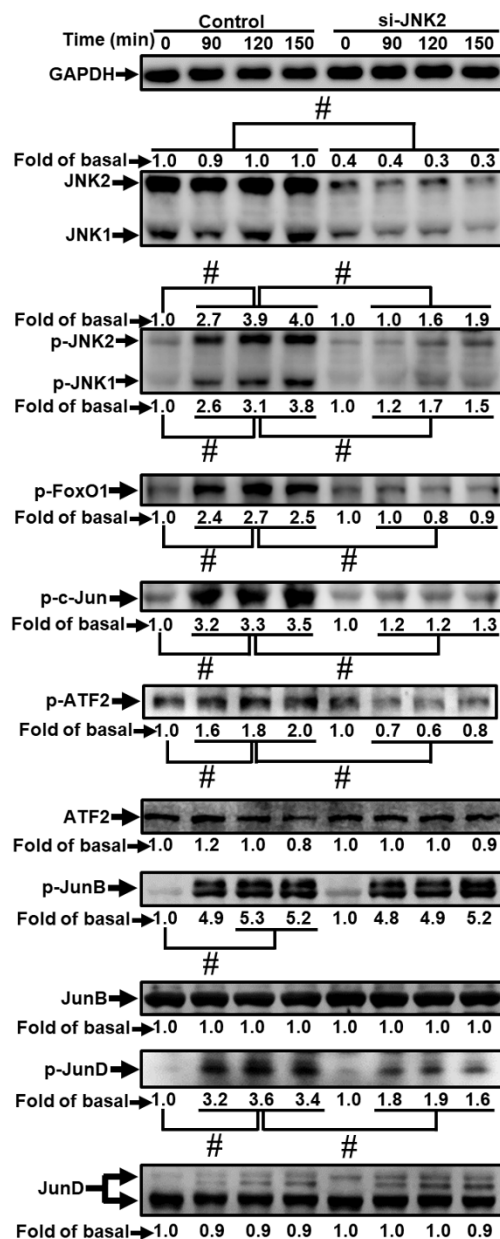


	Control				si-p38α			
Time (min)	0	90	120	150	0	90	120	150
p38α	1.0	1.0	1.0	1.0	0.3	0.3	0.4	0.3
p-p38	1.0	2.4	3.9	4.1	1.0	1.1	1.0	1.1
p-FoxO1	1.0	2.1	2.4	2.6	1.0	0.9	0.8	0.7
p-c-Jun	1.0	2.8	3.4	3.6	1.0	1.4	1.5	1.0
p-ATF2	1.0	2.0	2.0	2.2	1.0	0.8	0.6	0.6
ATF2	1.0	1.0	1.0	1.3	1.0	0.8	1.0	0.8
p-JunB	1.0	1.0	5.3	5.1	1.0	2.5	5.4	5.0
JunB	1.0	1.1	1.2	1.2	1.0	1.1	1.1	1.1
p-JunD	1.0	2.5	3.4	3.6	1.0	1.5	1.8	1.8
JunD	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.9
GAPDH								



**Supplementary Figure S1. In HPAEpiCs, p38 MAPK and JNK1/2 play a role in the phosphorylation of AP-1 proteins induced by SiNPs.** Cells were transfected with siRNA of scrambled, (A) p38, or (B) JNK2 and then incubated with 25  $\mu\text{g/ml}$  SiNPs for the indicated times. The protein levels of phospho-p38, total p38, phospho-JNK1/2, total JNK1/2, phospho-c-Jun, phospho-ATF2, total ATF2, phospho-JunB, total JunB, phospho-JunD, total JunD, and GAPDH were analyzed by Western blot. Data are expressed as the mean $\pm$ S.E.M. of 3 independent experiments. # $p<0.01$ , as compared between the two indicated groups.