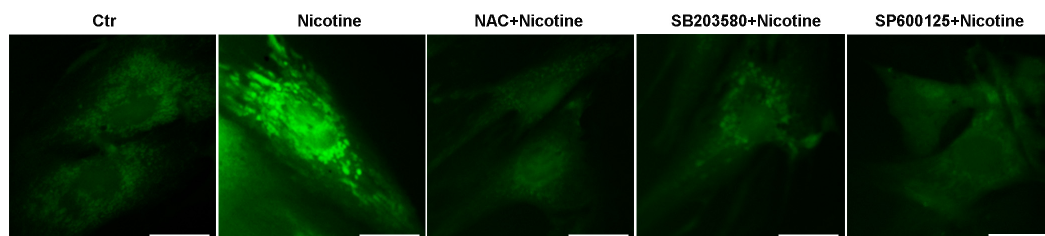


Supplementary Fig. S1 Nicotine activated p38MAPK and JNK signaling in ROS dependent way. Phosphorylation of p38MAPK and JNK levels elevated significantly under stimulation of different concentration of nicotine (A-C), and JNK and p38MAPK activation stimulated by nicotine were inhibited by NAC (D-F) (***, $p < 0.001$; **, $p < 0.01$; *, $p < 0.05$, $n = 3$).



Supplementary Fig. S2 NAC, SB203580 or SP600125 pre-treatment significantly decreased ROS accumulation caused by nicotine. After the pre-treatment of NAC, SB203580 or SP600125, ROS fluorescence intensity decreased remarkably under the stimulation of nicotine. (Scale bar = 20 μm).