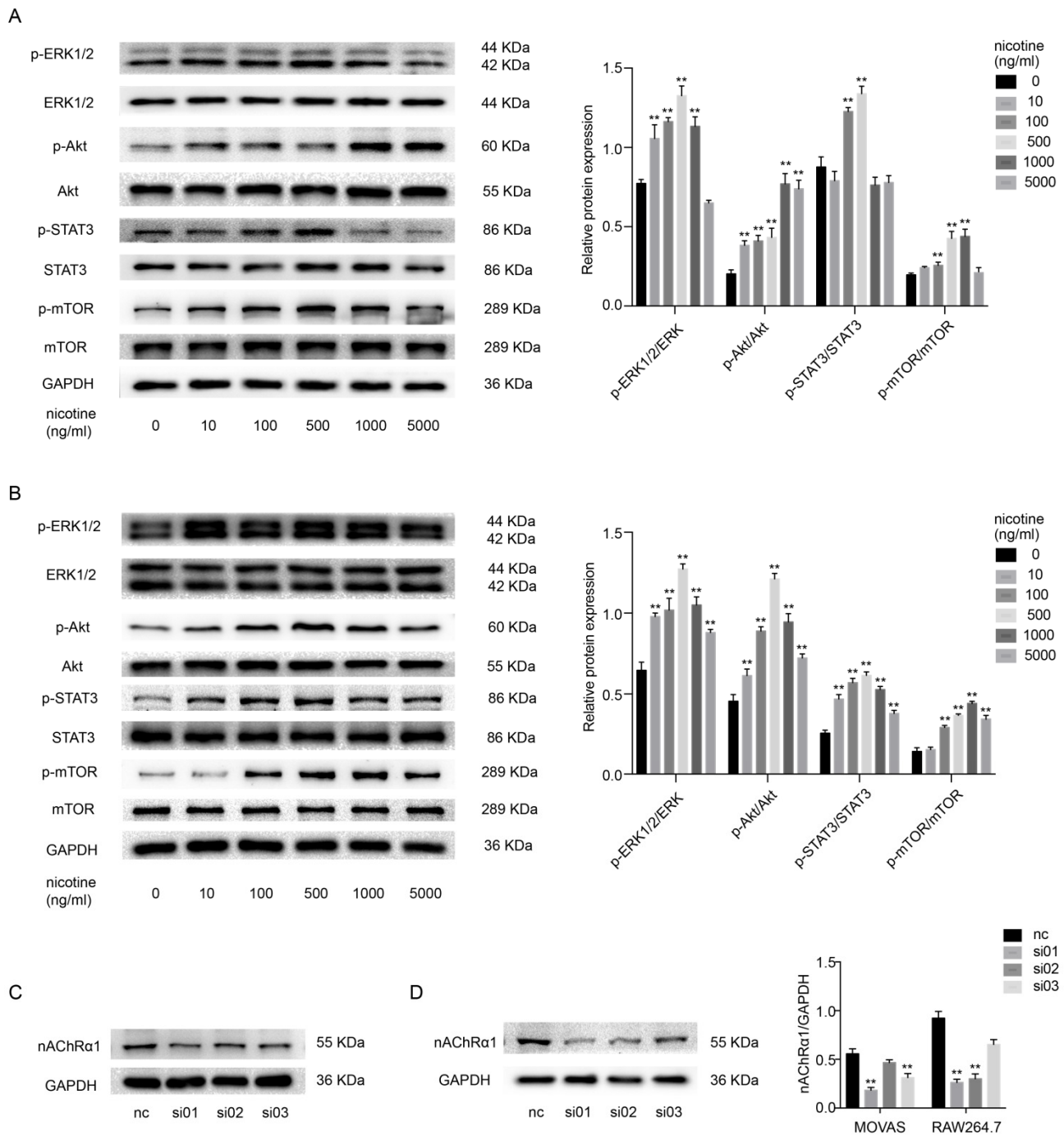
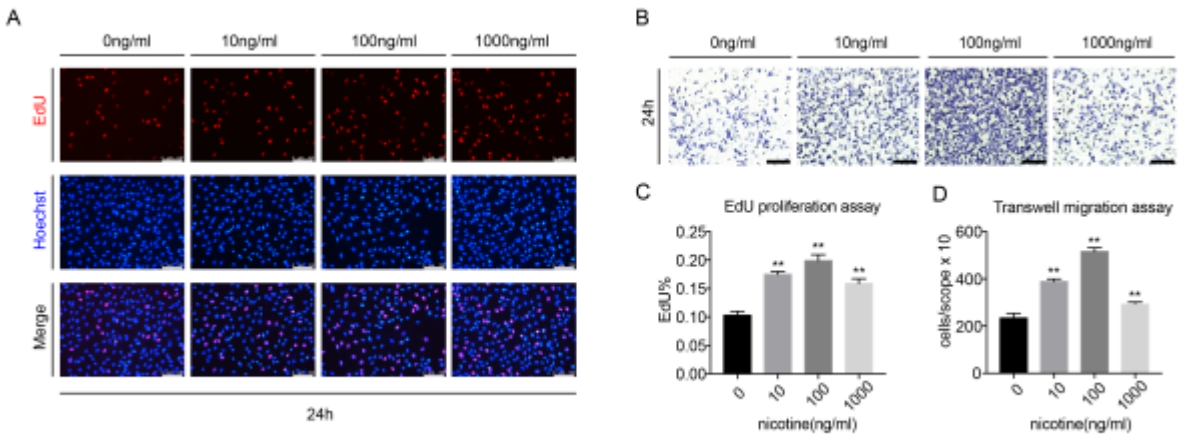


SUPPLEMENTARY FIGURES



Supplementary Figure 1. The determination of the optimal nicotine concentration and siRNA targeting the nAChR α 1 gene. (A) Nicotine stimulated the phosphorylation of STAT3, ERK1/2, Akt and mTOR in MOVAS cells. Two cell lines were treated with nicotine at the concentration of 0, 10, 100, 500, 1000, 5000ng/ml for 6 hours. The expression and activation of STAT3, ERK1/2, Akt and mTOR were detected by western blot. (B) Nicotine enhanced the activation of STAT3, ERK1/2, Akt and mTOR in RAW264.7 cells. (C) The effect of the siRNA targeting the nAChR α 1 gene in MOVAS cells. (D) The effect of siRNA targeting nAChR α 1 gene in RAW264.7 cells. Data were presented as mean \pm SD. * p < 0.05, ** p < 0.01 vs. the control group. Each experiment was performed three times.



Supplementary Figure 2

Supplementary Figure 2. Nicotine promotes the migration and proliferation of MOVAS cells in a concentration-dependent manner. (A) The proliferation of MOVAS cells under different concentrations of nicotine exposure detected by EdU assay. Magnification, 200×; bars, 100 μ m. (B) The migration of MOVAS cells under different concentrations of nicotine exposure detected by Transwell assay. Magnification, 100×; bars, 250 μ m. (C) The statistical analysis of EdU assay. (D) The statistical analysis of Transwell assay. Data were presented as mean \pm SD. * p < 0.05, ** p < 0.01 vs. the control group. Each experiment was performed three times.