



**Figure S1** The dose dependence of TNF- $\alpha$  on MUC5AC expression in 16HBE. 6HBE cells were treated with different dose of TNF- $\alpha$  (0, 2, 5, 10, and 20 ng/mL) for 24 h, and then the mRNA level of MUC5AC was assessed using qPCR analysis. \*,  $P < 0.05$ ; \*\*,  $P < 0.01$ .