A

Negative Control  Positive Control  LPS

LPS+Insulin  LPS+Insulin+Wortmannin

B

Negative Control  Positive Control  LPS
Figure 5. Effect of exogenous insulin on the protein expression of α-ENaC(A), β-ENaC(B), and γ-ENaC(C) in rat lung 8 hours after LPS-induced acute lung injury or saline treatment. The number of positive cells was counted in randomly 5 high-power fields of each section and averaged (five sections from 5 rats in each group). The number of cells expressing α-, β-, and γ-ENaC were significantly decreased in LPS-induced acute lung injury, compared with those in positive control group. However, the
number of cells expressing α-, β-, and γ-ENaC were strongly increased by insulin treatment, but were decreased by wortmannin. Brown immunostained cell was positive (original magnification 400×). ΔP<0.05 vs Positive control group; *P<0.05 vs LPS group; #P<0.05 vs LPS+Insulin group