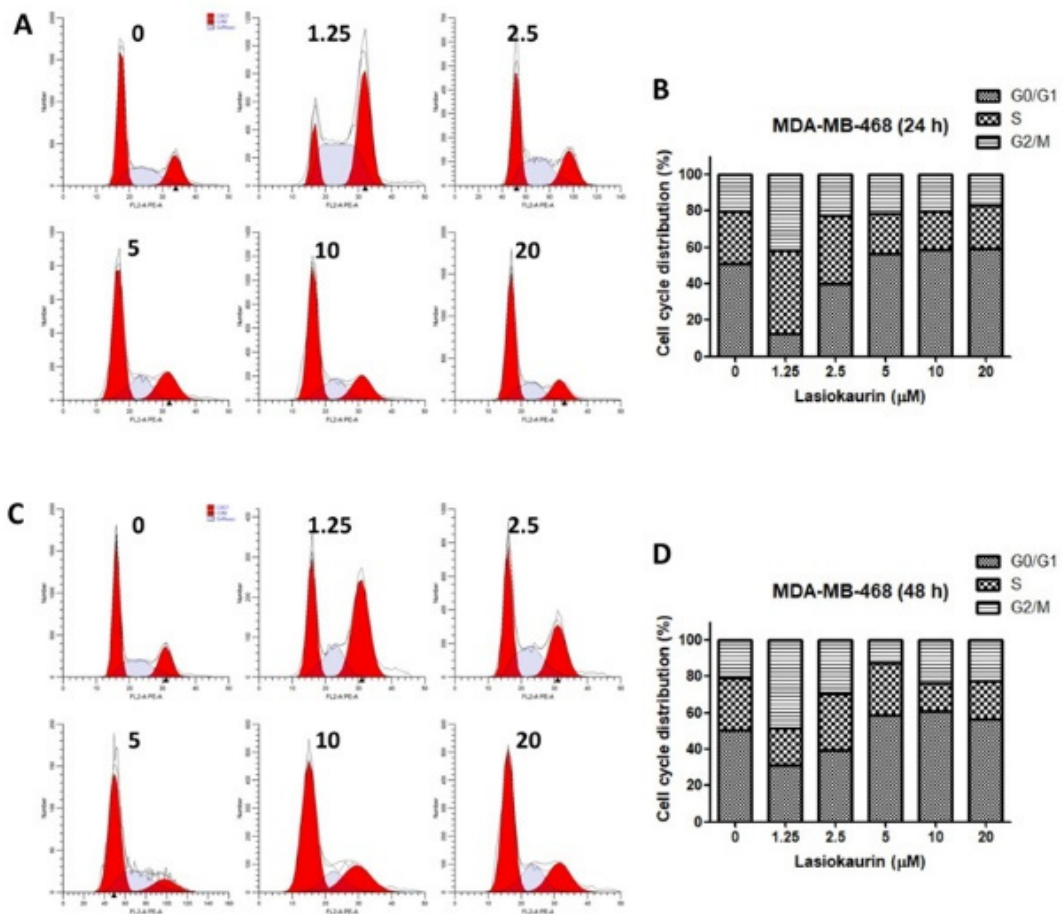
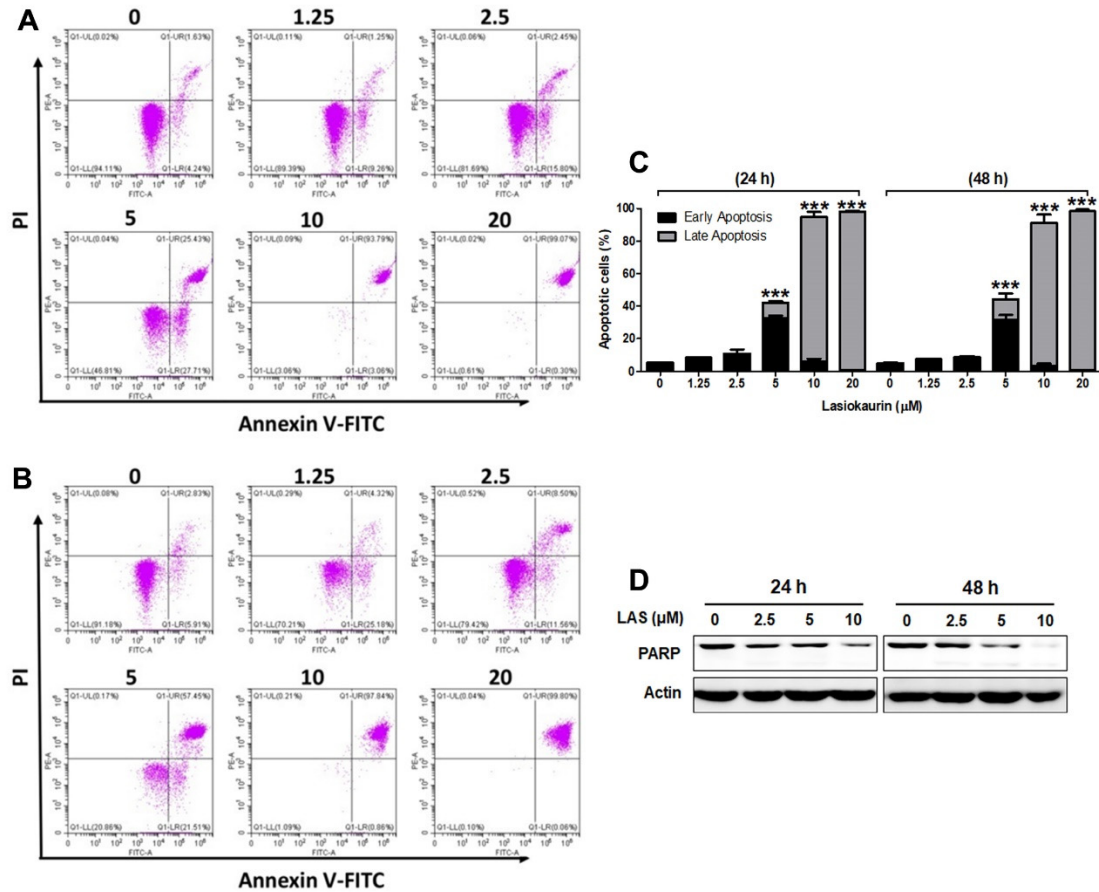


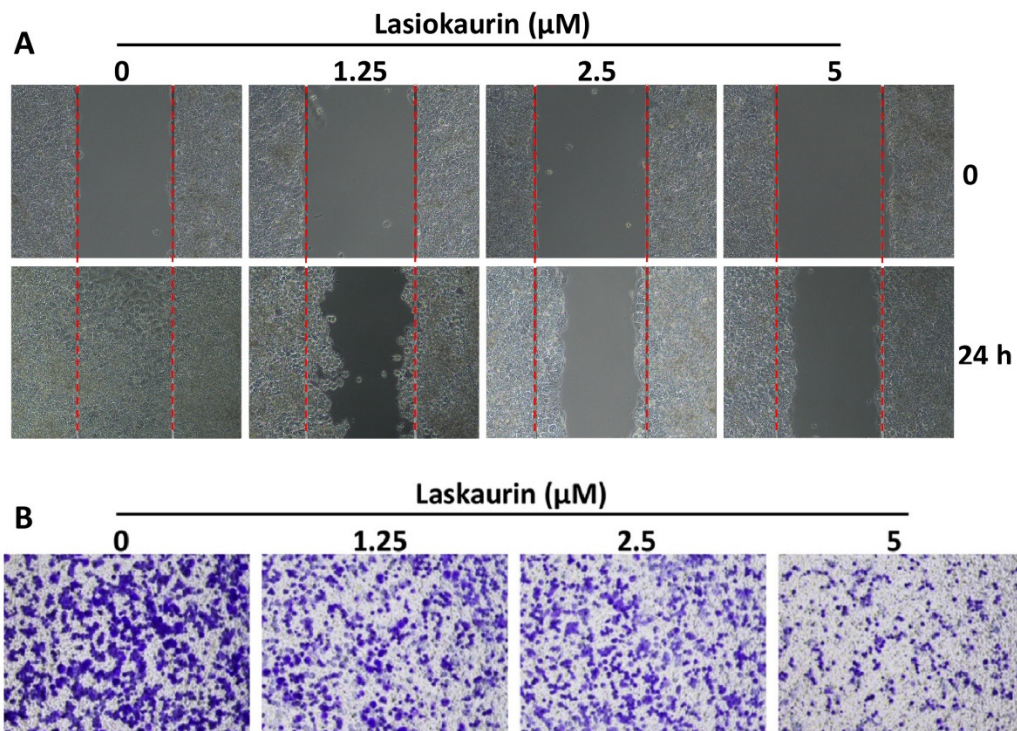
**Supplementary Figure S1.** Cell viability of MCF-10A was measured by MTT assay after LAS treatment. Data are presented as means  $\pm$  SEM from three independent experiments. \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$ , compared to control.



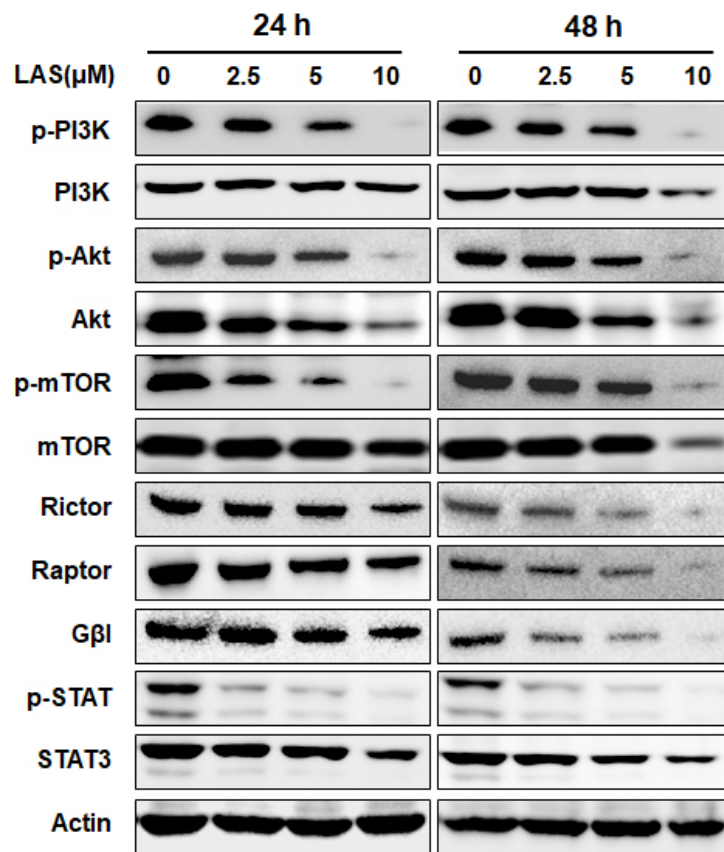
**Supplementary Figure S2.** Laskaurin induced cell cycle arrest in MDA-MB-468 cells. MDA-MB-468 cells were stained with PI after laskaurin treatment and the cell cycle analyzed by flow cytometry. Representative DNA fluorescence histograms of cell cycle distribution after 24 h (A) and 48 h (C) treatment were presented. Bar charts showed the percentage of different phases after 24 h (B) and 48 h (D) treatment.



**Supplementary Figure S3.** Laskaurin induced apoptosis and DNA damage in MDA-MB-468 cells. MDA-MB-468 cells were treated with laskaurin for 24 h (**A**) and 48 h (**B**), stained with Annexin V-FITC/PI and cell apoptosis was analyzed by flow cytometry. (**C**) Representative flow cytometry Annexin V/PI data. \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$ , compared to control. (**D**) Cell extracts were prepared from MDA-MB-468 cells and immunoblotted with the indicated antibodies.  $\beta$ -Actin was used as an internal control.



**Supplementary Figure S4.** Laskaurin inhibited the migration and invasion of MDA-MB-468 cells. (A) Cell migration was measured by wound-healing assay. (B) Cell invasion ability was assessed by transwell invasion assay.



**Supplementary Figure S5.** Laskaurin inhibited PI3K/Akt/mTOR pathway and STAT3 in MDA-MB-468 cells. MDA-MB-468 cells were treated with laskaurin at concentrations of 1.25, 2.5, 5  $\mu$ M for 24 or 48 h. Cell pellets collected and immunoblotted with the indicated antibodies.  $\beta$ -actin was used as an internal control.