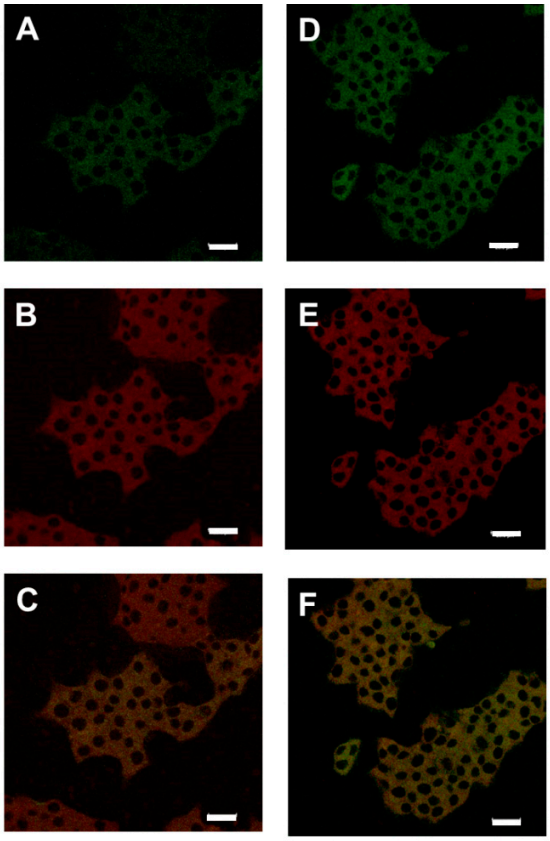
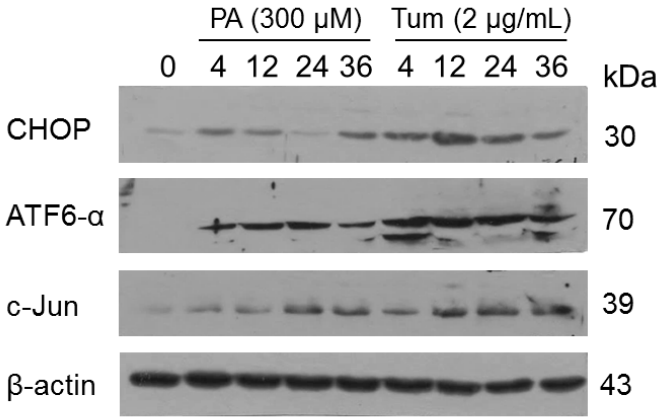
Supplementary figures

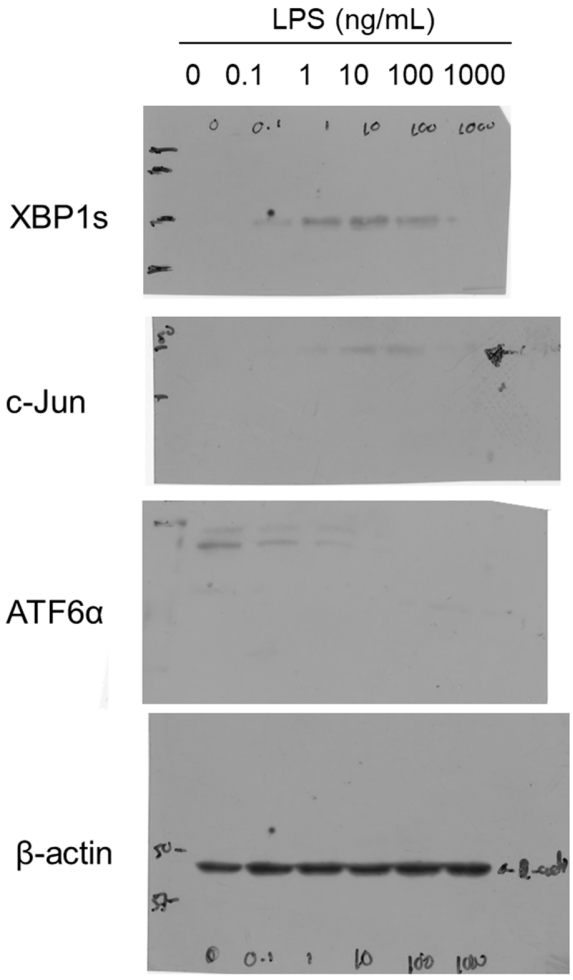
Sup. Fig. 1. LPS treatment increases the signal of DBP-PA on endoplasmic reticulum. Confocal images of β-cells treated with BDP-PA (**A**), ER-tracker probe (**B**) and merge (**C**). Under the same conditions, β-cells treated with BDP-PA plus LPS (**D**), ER-tracker plus LPS (**E**), and the merge (**F**). Bars correspond to 20 μm.



Sup. Fig. 2. Activation of UPR arms induced by PA treatment (300 μM). Tunicamycin (2 μg/mL) was employed as a control of UPR activation. β-actin was used as a loading control.



Sup. Fig. 3. Full western-blot of XBP1s, c-Jun, and ATF6*α* under LPS increasing concentrations (0.1 1000 ng/mL). β-actin was used as a loading control.



Sup. Fig. 4. Full western blot of PMCA1/4 under different conditions of treatment with stearic acid, oleic acid and LPS.