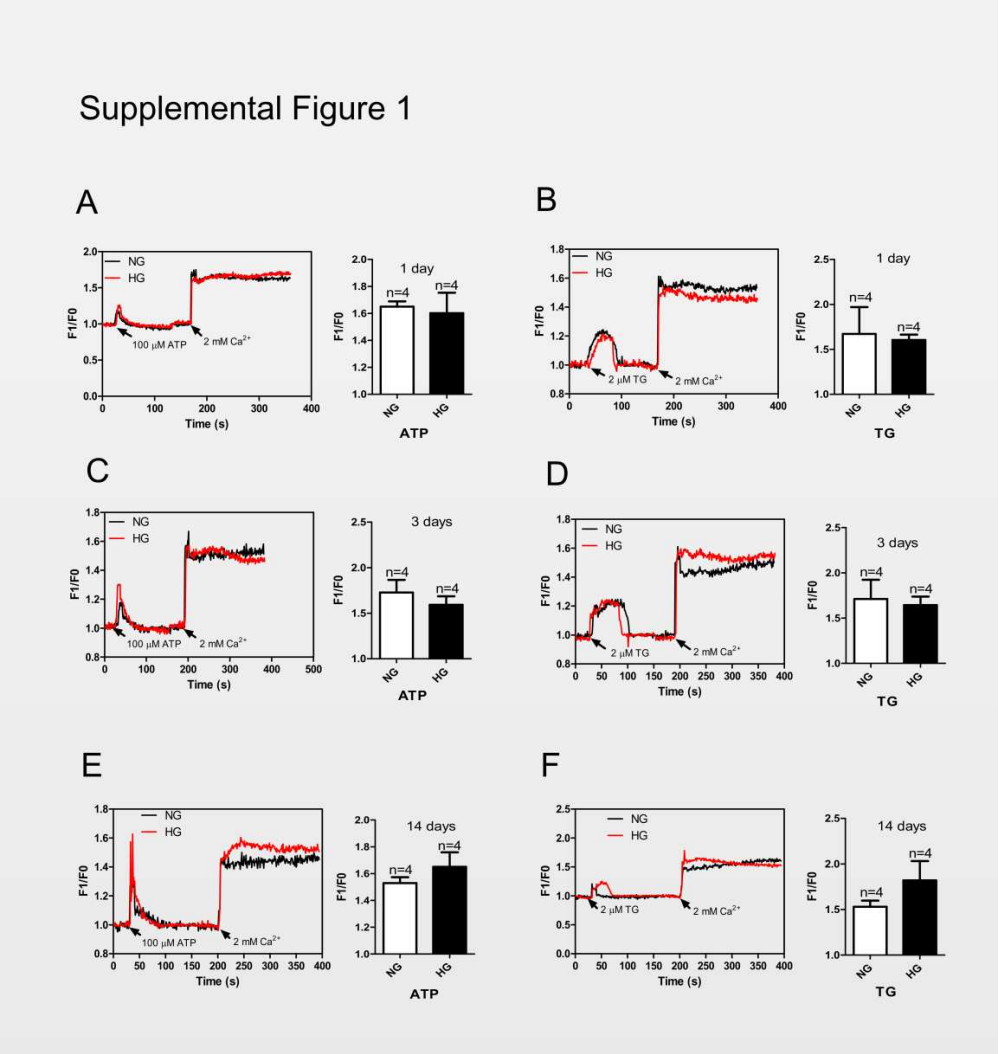
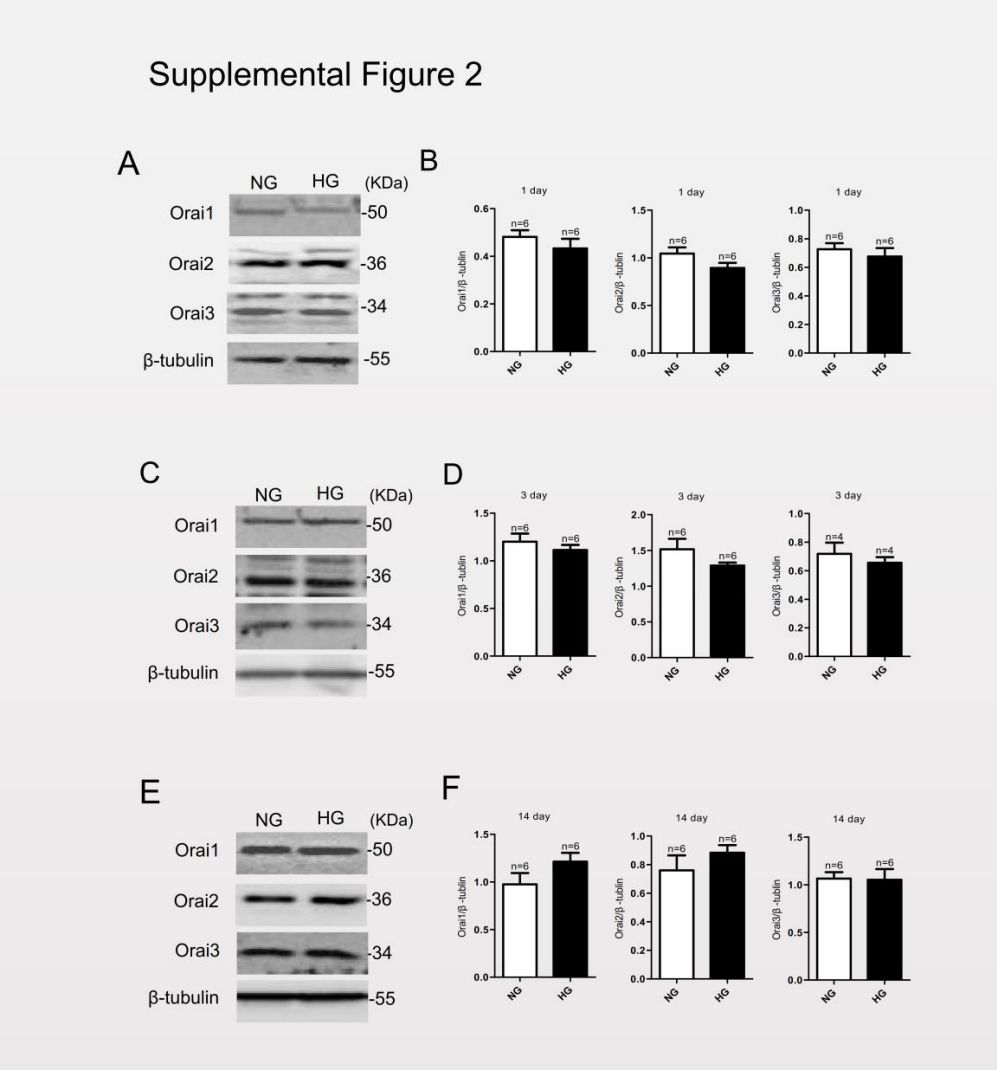
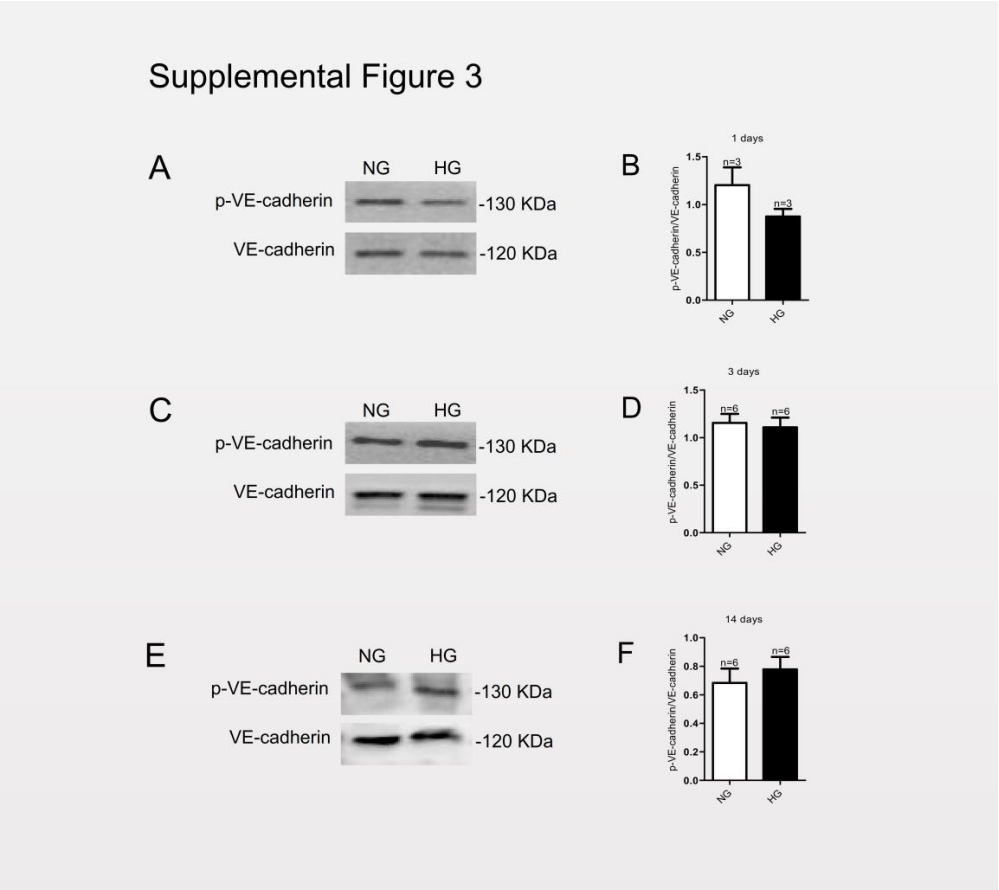


Supplemental Figure 1. SOCE is not changed in MAECs cultured in HG for 1, 3, or 14 days. Representative traces and summary data showing store-operated Ca^{2+} entry (SOCE) changes in mouse aortic endothelial cells (MAECs) cultured in normal glucose (NG) or high glucose (HG). After 100 μM ATP or 2 μM TG treatment for 10 min, the application of 2 mM Ca^{2+} induces SOCE similarly in cells cultured in medium with NG or HG. Values are means ± standard error of the mean (SEM) (n =4 samples). $P > 0.05$ compared with cells cultured in NG.



Supplemental Figure 2. Expression levels of Orai proteins are not all significantly changed in MAECs cultured in high glucose (HG) vs. normal glucose (NG) for 1, 3, or 14 days. Representative western blot images (A, day 1; C, day 3; and E, day 14) and summary data (B, day 1; D, day 3; and F, day 14) of Orai1–3 protein expression levels in mouse aortic endothelial cells (MAECs) cultured in normal-glucose (NG) or high-glucose (HG) medium. β-tubulin was used as the loading control. Values are means ± SEM (n = 4-6 samples). $P > 0.05$ compared with NG-cultured cells.



Supplemental Figure 3. The ratio of p-VE-cadherin to VE-cadherin expressed on the cell membrane are not significantly changed in MAECs cultured in high glucose (HG) vs. normal glucose (NG) for 1, 3, or 14 days. Representative western blot images (A, day 1; C, day 3; and E, day 14) and summary data (B, day 1; D, day 3; and F, day 14) of Orai1–3 protein expression levels in mouse aortic endothelial cells (MAECs) cultured in normal-glucose (NG) or high-glucose (HG) medium. Values are means ± SEM (n = 3-6 samples). $P > 0.05$ compared with NG-cultured cells.