ESM Figure 2

A

L/L

LABKO

Time (sec)

Membrane potential (mV)

Time (sec)

2.8 mM G

16.7 mM G

2.8 mM G

B

C

D

shRNA: NS Lkb1

SUR1 KIR6.2 LKB1 actin
ESM Figure 2. A. Representative traces of membrane potential recordings at 2.8 and 16.7 mmol/l glucose in L/L and LABKO beta cells (n=9-10 cells). Quantitation of average membrane potential (mV) in L/L (white bar) and LABKO (black bar) beta cells in 2.8 and 16.7 mmol/l glucose and net depolarization (amplitude) is shown. B. QPCR analysis of KIR6.2 and SUR1 relative to control 36b4 levels in MIN6 NSi (black bar) and LKB1i (white bar) cells. C. QPCR analysis of KIR6.2 and SUR1 relative to control 36b4 levels in L/L (black bar) and LABKO (white bar) islet total RNA. D. Western blot for KIR6.2 and SUR1 protein levels from extracts of NSi and LKB1i MIN6 cells (right).