ESM Figure 5. A. Insulin secretion from LABKO islets expressing GFP (white bars) or LKB1-GFP (black bars) in low (2.8 mmol/l) glucose or high (16.7 mmol/l) glucose. Western blot shows LKB1 protein expression. Data are ±SEM of n=2 mice per condition. B. Extracellular acidification rate (ECAR) normalized to total µg of protein in dissociated islets following treatment with 16.7 mmol/l glucose (G), 5 uM Oligomycin (O), 0.5 uM FCCP (F), and 5 uM Rotenone (R) L/L controls (black symbols), LABKO (white symbols). C. ECAR measured as in B with assay medium supplemented with 2 mmol/l pyruvate and 4 mmol/l glutamine. D, E. Measurement of OCR in NSi (black symbols) and LKB1i (white symbols) MIN6 cells following treatment with 16.7 mmol/l glucose (G), 5 uM Oligomycin (O), 0.5 uM FCCP (F), and 5 umol/l Rotenone (R) in the absence or presence of 2 mol/l pyruvate (D, square symbols) or 4 mmol/l glutamine (E, square symbols). F. Measurement of OCR normalized to total µg of protein in dissociated L/L islets infected with GFP (black circles), LABKO islets infected with GFP (white circles) or LABKO islets infected with AMPK-constitutively active (CA) adenovirus (white circles, dotted line). Western blot at right to shown protein levels of AMPK-CA following stimulation with 16.7 mmol/l glucose (G) and 5 uM oligomycin (O).