Supplemental Materials
*Molecular Biology of the Cell*

Li et al.

Figure S1
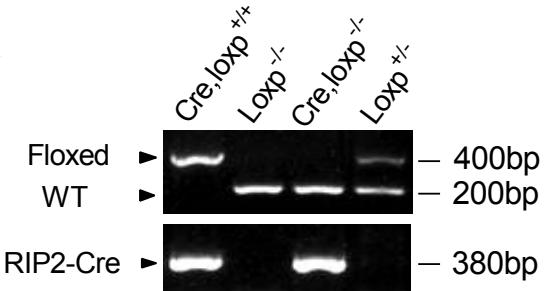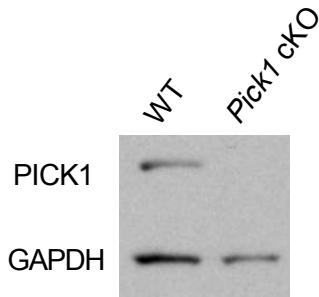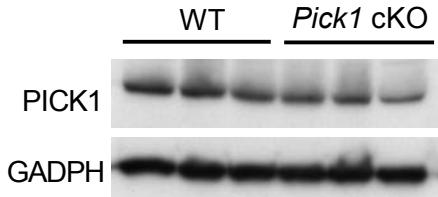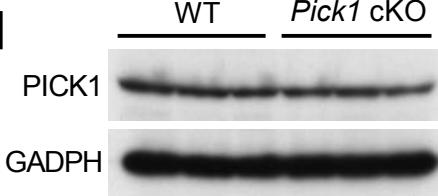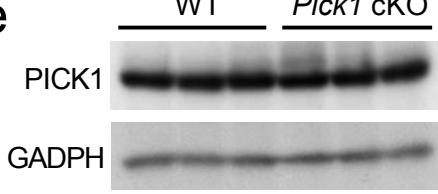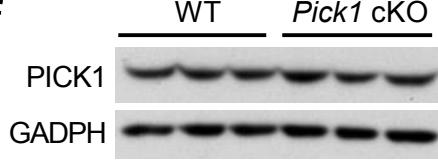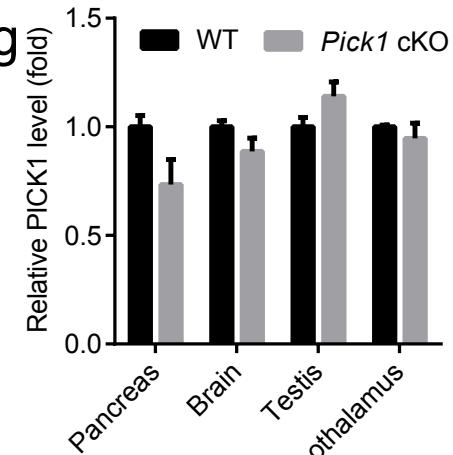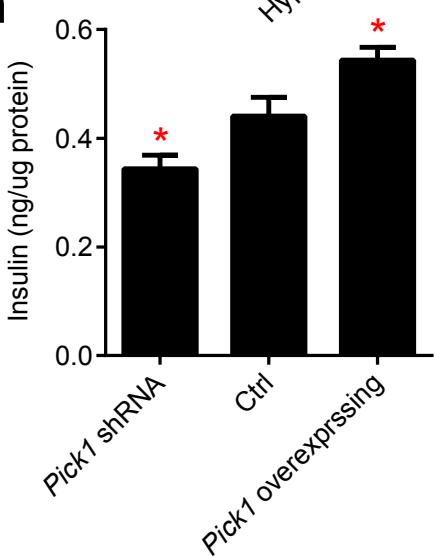
Fig. S1.(a) Representative PCR genotyping results of the indicated genotypes. (b) Western blot analysis of isolated islets from WT and cKO mice aged 4 months old. (c-f) Western blot analysis of PICK1 in the pancreas, brain, testis and hypothalamus from 5-month-old control and PICK1 cKO animals. (g) Relative PICK1 protein level was measured and normalized to that of GAPDH, n=3 per group. (h) Evaluation of insulin in INS1E cells with reduced or overexpressed PICK1. Data are represented as the mean ± SEM. *P<0.05; two sided student's t-test.

Figure S2
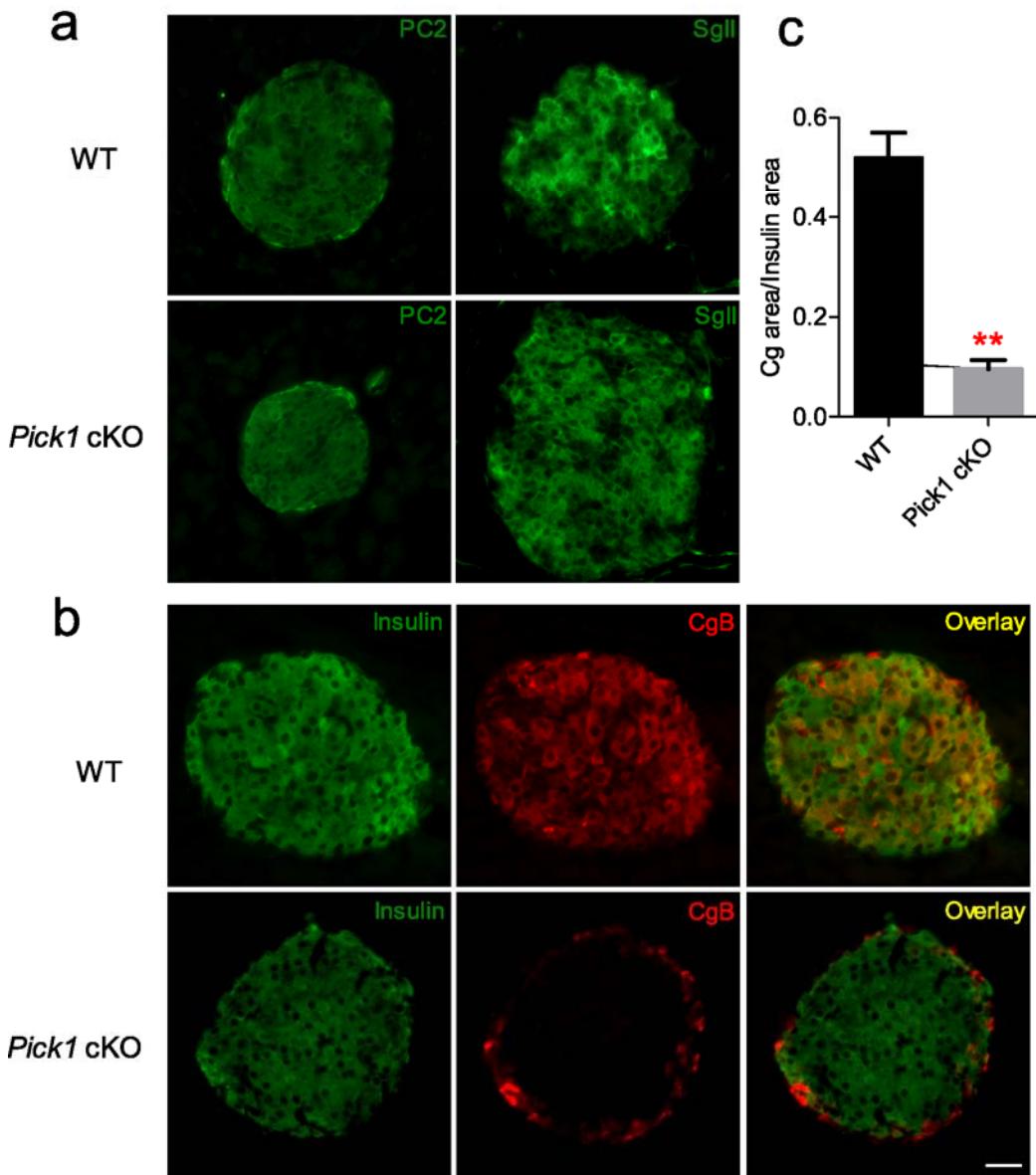
Fig. S2. (a-b) Pancreatic sections from 5-month-old mice of the indicated genotypes were stained with antibodies against PC2 (a, left) orSgII(a, right), insulin (b, green) and CgB (b, red). Scale bar represents 50 μm. SgII, secretogranin II. (c) Quantification analysis of the CgB/insulin area. 20 islets were calculated per group.Data are represented as the mean ± SEM. **P<0.01; two sided student's t-test.

Table S1. Q-PCR Primer Sequence

Gene	Forward	Reverse
Pdx1	TTTGAAGTCAGTCAGTTGCTCCTT	CCTTCAACCCCTCTCTTGCTATT
Mafa	AGGAGGTCATCCGACTGAAACAGA	ATTTCTCCTTGTACAGGTCCCGCT
Ins1	TGGCTTCTTCTACACACCCAAGTC	ACTGATCCACAATGCCACGCTTCT
Ins2	GTGGCTTCTTCTACACACCCATGT	GCACTGATCTACAATGCCACGCTT
Pax6	ACAACGACGAAAGAGAGG	ACAAAGACACCACCAAGC
NeuroD1	TCAGCATCAATGGCAACTTC	AAGATTGATCCGTGGCTTTG
CHOP	CCACCACACCTGAAAGCAGAA	AGGTGAAAGGCAGGGACTCA
sXbp1	CTGAGTCCGAATCAGGTGCAG	GTCCATGGGAAGATGTTCTGG
Xbp1	TGGCCGGGTCTGCTGAGTCCG	GTCCATGGGAAGATGTTCTGG
ATF4	GGGTTCTGTCTTCCACTCCA	AAGCAGCAGAGTCAGGCTTTC
Pc1/3	AATGGGCGGCGGAGAT	CCAAAAGGTCATACCCCAGTTC
Pc2	GCTGGACCAGCCCTTTATGA	ATGTCGATCAGTTGAGGCATGT
Cpe	CTGATCCACAGCACCCGAAT	GCGATGCGGCTTTCTCA
Actin	CTGAATGGCCCAGGTCTGA	CCCTGGCTGCCTCAACAC
Gapdh	GGTGAAGGTCGGTGTGAACG	CTCGCTCCTGGAAGATGGTG