ONLINE APPENDIX

SUPPLEMENTARY TABLE 1. Antibodies used for protein quantitation

Antibody	Source	Catalog #	Dilution
4E-BP1	Bethyl Laboratories	6479/2	1:10,000
4E-BP1(T37/46)P	Cell Signaling	9459	1:1,000
4E-BP2	Cell Signaling	2845	1:1,000
β-actin	Sigma-Aldrich	A5060	1:1,000
eIF2	BioSource International	44-728G	1:3,000
eIF4E	Cell Signaling	9742	1:1,000
eIF4E(S209)P	Cell Signaling	9741	1:1,000
eIF4G(S1108)P	Cell Signaling	2441	1:1,000
HIF-1α	Novus Biologicals	100-654	1:1,000
VEGF	Santa Cruz	7269	1:500

SUPPLEMENTARY TABLE 2
Primers used for quantitation of mRNA expression by quantitative real-time PCR.

mRNA	Primer Sequence
β-actin	CTTCCTTCCTGGGTATGGAATCCTG
VEGFA	CTCCACCATGCCAAGTGGTCCCAGG (designed to detect all VEGFA isoforms)
FoxO1	TCTCTAATTCTTGAGGGGTGGTTGC
4E-BP1	CACCCCGGGAGGAACCAGAATCATC
Gadd45	GCTGGTGACGAACCCACATTCATCA
p300	AGCGATGGCACAGATTTTGGTTCAC
Angiopoietin2	GAACAGCTTCCTAGAAAAGAAAGTG

Supplemental Figure 1. Blood glucose concentrations in control andSTZ-induced diabetic rates and mice and in wildtype and INS2Akita diabetic mice. **(A)** Type 1 diabetes was induced in male Sprague-Dawley rats. Values presented represent the mean ± SEM of 51 control and 71 diabetic rats at 1 week, 25 control and 30 diabetic rats at 2 weeks, 10 control and 17 diabetic rats at 4 weeks, and 10 control and 14 diabetic rats at 6 weeks; control (white bars) and diabetic (hatched bars). *** $p<0.001$ vs control at the same time point. **(B)** male C57BL/6J Ins2Akita heterozygous mice (4.5 week old) were genotyped and blood glucose concentrations were assessed; littermates homozygous for the wildtype Ins2 gene were used as controls. Values represent the mean ± SEM of 16 control and 16 diabetic mice at 6 weeks, 20 control and 14 diabetic mice at 16 weeks, and 13 control and 15 diabetic mice at 24 weeks; control (white bars) and diabetic (Hatched bars). *** $p<0.001$ vs wildtype at the same time point. **(C)** At 4 weeks of age, type 1 diabetes was induced in Eif4ebp1;Eif4ebp2 DKO mice as described. The study was repeated 3 times and the aggregate data are shown. Values represent the mean ± SEM for 20 wildtype control (white bars), 29 wildtype diabetic (white, hatched bars), 18 DKO control (grey bars), and 30 DKO diabetic (gray, hatched bars) mice. * $p<0.001$ wildtype diabetic vs control at the same time point. † $p<0.001$ DKO diabetic vs control at the same time point.