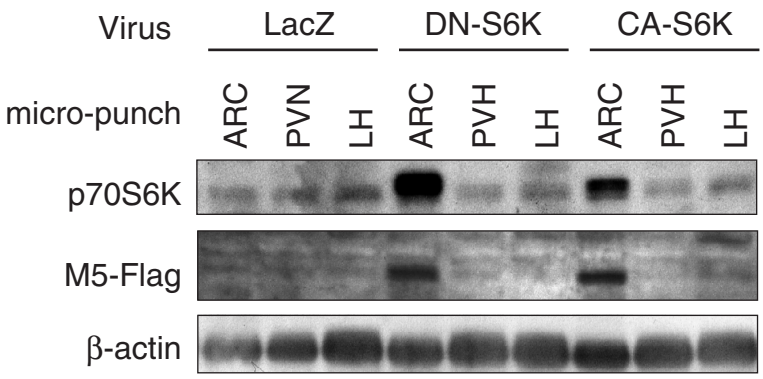
Supplemental Fig. 1



Suppl. Fig. 1. Adenoviral overexpression is limited to the MBH. Representative bands of the S6K protein level in the ARC (arcuate nucleus), PVN (paraventricular nuclei of the hypothalamus) and LH (lateral hypothalamus) of rats expressing LacZ (n=4), CA-S6K (n=4) or DN-S6K (n=4), detected by anti-S6K or anti-Flag. Quantitation of S6K and Flag bands from PVN and LH revealed no significant differences between the viruses.

Supplementary Table 1

Body weight (g) before the first surgery, the second surgery, and the clamp; plasma insulin (ng/mL) and glucose (mg/dL) levels before the start of MBH insulin, and during the basal and clamped periods.

	No Virus						One-day HF plus MBH insulin			Hyperinslinemic clamp	
	NV-VEH	NV-INS	HF-INS	LZ-VEH	LZ-INS	CA-S6K-INS	LZ	DN-S6K	Raptor/ΔCT	LZ	CA-S6K
Body Weight (first surgery)	299 ± 4	300 ± 7	298 ± 4	298 ± 5	301 ± 8	301 ± 12	304 ± 12	301 ± 7	302 ± 9	309 ± 10	304 ± 14
Body Weight (second surgery)	310 ± 8	312 ± 9	310 ± 5	309 ± 7	306 ± 6	305 ± 10	303 ± 11	303 ± 8	300 ± 9	316 ± 13	305 ± 12
Body Weight (clamp)	309 ± 7	312 ± 6	311 ± 7	303 ± 4	300 ± 5	301 ± 11	304 ± 11	301 ± 7	302 ± 10	313 ± 10	307 ± 11
Insulin (pre-MBH insulin)	1.1 ± 0.4	1.1 ± 0.3	1.5 ± 0.4	1.0 ± 0.3	1.0 ± 0.4	1.2 ± 0.3	1.4 ± 0.5	1.1 ± 0.4	1.3 ± 0.4	NA	NA
Insulin (basal period)	1.0 ± 0.1	1.0 ± 0.2	1.1 ± 0.2	1.1 ± 0.1	1.0 ± 0.1	1.3 ± 0.2	1.2 ± 0.3	1.0 ± 0.3	1.1 ± 0.2	1.5 ± 0.4	1.6 ± 0.3
Insulin (clamp period)	1.1 ± 0.2	1.2 ± 0.1	1.3 ± 0.2	1.3 ± 0.2	1.4 ± 0.2	1.3 ± 0.1	1.6 ± 0.3	1.6 ± 0.3	1.5 ± 0.2	4.2 ± 0.3	5.3 ± 0.7
Glucose (pre-MBH insulin)	160 ± 4	158 ± 7	167 ± 10	155 ± 7	152 ± 7	166 ± 8	176 ± 8	162 ± 4	174 ± 4	NA	NA
Glucose (basal period)	152 ± 6	153 ± 9	147 ± 4	150 ± 10	145 ± 11	160 ± 7	151 ± 6	145 ± 9	146 ± 6	148 ± 5	154 ± 4
Glucose (clamp period)	145 ± 4	140 ± 6	153 ± 5	142 ± 8	134 ± 9	156 ± 7	151 ± 9	140 ± 11	139 ± 5	147 ± 5	150 ± 5