

Table S1: List of antibodies used for western blot with provider, ref. no. and appropriate dilution.

Provider	Antigen	Ref. no.	Dilution
Calbiochem Merck	UCP2	144-157	1: 1000
Cell Signaling Technology	pIRS	2388	1: 1000
	IRS	3407	1: 1000
	pAkt	9271	1: 1000
	Akt	9272	1: 1000
	pErk	4370	1: 1000
	Erk	4695	1: 1000
	synaptotagmin I	14558	1: 1000
	PSD-95	2507	1: 1000
Genetex	synapsin I	GTX131233	1: 500
Immunological Sciences	Adiponectin	AB-84172	1: 500
Merk Millipore	PGC-1 α	AB-3242	1: 500
	Synaptophysin	AB9272	1: 200000
Santa Cruz Biotechnology	BDNF	SC546	1: 500
	TrkB	sc-377218	1: 2000
Sigma Aldrich	Actin	A2228	1: 1000
Thermo Fisher Scientific	PPAR- α	PA1-32484	1: 1000
	Lipocalin	PA5-46938	1: 200