Table S1: Detailed information of all the antibodies used.

Protein	Clone	Peptide / Inmunogen
OPA1	1OPA-1A8	Recombinant protein corresponding to mouse OPA1
MFN1	Polyclonal	KLH-conjugated linear peptide corresponding to the cytoplasmic domain of human Mitofusin-1
MNF2	Polyclonal	KLH-conjugated linear peptide corresponding to the cytoplasmic domain of human Mitofusin-2
FIS1	Polyclonal	KLH-conjugated-linear peptide corresponding to the cytoplasmic topological domain of human Mitochondrial fission 1 protein.
OXPHOS	Monoclonal	NA
MIEAP	EPR13704	Recombinant fragment within Human Spata18 aa 100-250
PGC1a	Polyclonal	Synthetic peptide corresponding to Human PGC1 alpha + beta aa 750-850
MCP1	Polyclonal	NA
pDRP1	Monoclonal	NA
mtTFA	Monoclonal	NA
NFKB	2A12A7	Recombinant protein (~175 amino acids) from the C-terminal portion of human NF-kappa-B (p65)
GPX1	Polyclonal	Synthetic peptide corresponding to a region within amino acids 127 and 203 of Human GPX1
Actin Rb	Polyclonal	N-terminal actin peptide attached to a multiple antigen peptide (MAP) backbone.
Actin Ms	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues of human β-actin.	NA
VDAC	20B12AF2	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.

NA, not available