

Table S1. List of antibodies used in the study.

S.no	Name of the Antibody	Catalog Number & Source	Dilution	Company
1	NRF2	16396-1-AP, rabbit polyclonal	1:500 (JESS) 1:1000 (WB)	ProteinTech
2	KEAP1	sc-365626 mouse monoclonal	1:1000 (WB)	Santa Cruz Biotechnology
3	Hemeoxygenase 1	ab13243 rabbit polyclonal	1:1000 (WB)	Abcam
4	TFAM	22586-1-AP rabbit polyclonal	1:1000 (WB)	Protein Tech
5	ATP5B	ab14730 mouse monoclonal	1:1000 (WB)	Abcam
6	OXPHOS antibody cocktail	MS 604-300 mouse monoclonal	1:1000 (WB)	Abcam
7	Collagen IV	ab6586 rabbit polyclonal	1:200 (IHC)	Abcam
8	Fibronectin	ab2413 rabbit polyclonal	1:200 (IHC)	Abcam

9	PGC1 α	ab191838 rabbit polyclonal	1:500 (WB)	Abcam
10	Anti-rabbit HRP secondary antibody	7074S	1:5000 (WB)	Cell signaling
11	Anti-mouse HRP secondary antibody	Sc-2005	1:5000 (WB)	Santa Cruz Biotechnology

Table S2. Substrates used in respirometry in frozen kidney samples.

Port	Substrate/Inhibitor	Final Concentration in the Well (1X)	Concentration Loaded in the Port (10X)
A	NADH	1 mM	10 mM
B	Rotenone (Rot) + Antimycin A (AA)	2 μ M (Rot) + 4 μ M (AA)	20 μ M (Rot) + 40 μ M (AA)
C	TMPD + Ascorbate	0.5 mM TMPD + 1 mM Ascorbate	5 mM TMPD in 10 mM Ascorbate
D	Sodium Azide	50 mM	500 mM

Oxygen consumption rate was measured in renal cortical mitochondria as described in Methods section by addition of electron donors specific for complex I (NADH), complex IV (TMPD+ascorbate), and inhibitors for complex I (Rot), complex III (AA), and complex IV (Azide) to the injection port of assay plate of Agilent Seahorse XFe96 analyzer. Rot, rotenone; AA, antimycin A; TMPD, tetramethyl-p-phenylenediamine.