

**Table S1: List of primary antibodies**

Target	Source	Immunogen	Dilution	Host Species	Applica tion
<b>ABCD3</b>	Sigma-Aldrich, SAB4200181 Schnelldorf, Germany	ATP-binding cassette (ABC) transporter	1:1200	Mouse  mAb	WB
<b>ACBD5</b>	Abcam (ab100910) Cambridge, UK	Acyl-CoA-binding domain- containing protein 5	1:1000	RabbitpA b	WB
<b>ACAD11</b>	Gift from G. Vockley, Pittsburg University, USA	Acyl-CoA dehydrogenase 11	1:2000	Rabbit  pAb	WB
<b>ACOX1</b>	Gift from T. Hashimoto, Shinshu University School of Medicine, Nagano, JP	Peroxisomal acyl-coenzyme A oxidase 1	1:10.000	Rabbit	WB
<b>ATPA</b>	BD Transduction Laboratories 612517 San Diego, USA	ATP synthase subunit alpha, mitochondrial	1:10.000	Mouse mAb	WB
<b>ATPB</b>	Proteintech (66600) Rosemont IL, USA	$\beta$ -subunit of ATP synthase	1:5000	Mouse  mAb	WB
<b>BiP/GRP78</b>	BD Transduction Laboratories 610978 San Diego USA	Endoplasmic reticulum chaperone BiP	1:1000	Mouse mAb	WB
<b>Catalase</b>	Gift from A. Völkl, University of Heidelberg, Germany	Catalase	10 ug/ml	Rabbit	WB
<b>c-myc tag (9B11)</b>	Cell Signaling #2276 Danvers, Massachusetts USA	myc epitope tag	1:500	Mouse  mAb	IF
<b>ERP29 (LY1C6)</b>	Abcam ab11420- 50 Cambridge, UK	Endoplasmic reticulum resident protein 29	1:5000	Rabbit pAb	WB
<b>FATP4</b>	Abcam ab200353 Cambridge, UK	Fatty acid protein 4	1:1000	Rabbit mAb	WB
<b>LAMP1</b>	Santa Cruz Biotechnology sc- 17768 Santa Cruz, USA	Lysosome-associated membrane proteins	1:500	Mouse mAb	IF
<b>OCIAD1</b>	Novus biotechnie NBP1-76242 Abingdon UK	OCIA-domain containing protein 1	1:100	Rabbit  pAb	IF
<b>PEX3</b>	Gift from G. Dodt, University of Tübingen, Germany	Peroxisomal Biogenesis Factor 3	1:1000	Rabbit	WB

<b>PEX14</b>	Proteogenix, selfmade (7790-03107-A02) Oberhausbergen, France	Peroxisomal Biogenesis Factor 14	1:2000	Guinea pig	IF
<b>PMP22</b>	Gift from A. Vökl, University of Heidelberg, Germany	Peroxisomal membrane protein 22	1:500	Rabbit	WB
<b>RAB5A</b>	Proteintech 11974-1-AP Rosemont IL, USA	The small GTPase Rab	1:1000	Rabbit pAb	IF
<b>SAR1B</b>	Proteintech/ptglab 22292-1-AP Rosemont IL, USA	Secretion Associated Ras Related GTPase 1B	1:200	Rabbit pAb	IF
<b>SCP-X</b>	MyBio Source MBS 1495100 San Diego, USA	Serol Carrier Protein	1:500	Rabbit pAb	WB
<b>TOMM20</b>	BD Transduction Laboratories 612278 San Diego, USA	Translocase of the Outer Membrane of the mitochondria	1:1000	Mouse mAb	WB, IF

**Table S2: List of secondary antibodies**

<b>Conjugated Molecule</b>	<b>Source</b>	<b>Dilution</b>	<b>Reactivity</b>	<b>Use</b>
<b>Alexa Fluor® 488</b>	Invitrogen A32723	1:1000	Goat anti mouse IgG	IF
<b>Alexa Fluor® 488</b>	Invitrogen A32723	1:1000	Goat anti mouse IgG	IF
<b>Alexa Fluor® 568</b>	Invitrogen A11041	1:1000	Goat anti chicken IgG	IF
<b>Alexa Fluor® 568</b>	Invitrogen A11011	1:1000	Goat anti rabbit IgG	IF
<b>Alexa Fluor® 568</b>	Invitrogen A11036	1:1000	Goat anti rat IgG	IF
<b>Alexa Fluor® 647</b>	Invitrogen A21450	1:500	Goat anti guinea pig IgG	IF
<b>Alexa Fluor® 647</b>	Invitrogen A32733	1:500	Goat anti rabbit IgG	IF
<b>HRP IgG</b>	DAKO (P0447),	1:5000	Goat anti mouse	WB
<b>HRP IgG</b>	DAKO (P0448),	1:5000	Goat anti rabbit	WB

**Table S3: Primer list**

Gene	Forward	Reverse	Product Size	Tm
mPDCD6	CTTGGATCCCATGGCTGCCTA	GGGAAGCTTTTATACAATGCT	573 base	66 °C
	CTCCTACCG	GAAGACC	pair	
mOCIAD1	CTTGAATTCGATGAATGGGA	CCTCTCGAGTTACTCATCCCA	1529 base	64 °C
	GGGCTG	AGTATC	pair	
mPAFAH2	CTTGAATTCGATGGGGGCCG	GGGAAGCTTCTATAGACTAG	1173 base	66 °C
	GCCAGT	ACAGATAGTGCGG	pair	
mHTATIP2	CTTGAATTCGATGGCGGACAA	CCTCTCGAGTTATCACAGTTT	729 base	66 °C
	GGAAGC	GGGC	pair	