CVISI						
Store at -20C	Mitochondrial Marker Antib Kit	ody Sampler	mpler		Cell TEC Orders:	
#8674	1 Kit (8 x 20 microliters)		3 Trask Lane	Support: Web:   Danvers   Ma	assach	
or Re	esearch Use Only. Not for Use in Diagnostic Pro	cedures.				
roduct Includes		Product #	Quantity	Mol. Wt	Iso	
OX IV (3E11) Rabbit mAb		4850	20 µl	17 kDa	Rab	
ytochrome c (136F3) Rabbit mAb		4280	20 µl	14 kDa	Rab	
ISP60 (D6F1) XP <sup>®</sup> Rabbit mAb		12165	20 µl	60 kDa	Rab	
HB1 Antibody		2426	20 µl	29 kDa	Rab	



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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
COX IV (3E11) Rabbit mAb	4850	20 µl	17 kDa	Rabbit IgG
Cytochrome c (136F3) Rabbit mAb	4280	20 µl	14 kDa	Rabbit IgG
HSP60 (D6F1) XP <sup>®</sup> Rabbit mAb	12165	20 µl	60 kDa	Rabbit IgG
PHB1 Antibody	2426	20 µl	29 kDa	Rabbit
Pyruvate Dehydrogenase (C54G1) Rabbit mAb	3205	20 µl	43 kDa	Rabbit IgG
SDHA (D6J9M) XP <sup>®</sup> Rabbit mAb	11998	20 µl	70 kDa	Rabbit IgG
SOD1 (71G8) Mouse mAb	4266	20 µl	18 kDa	Mouse IgG1
VDAC (D73D12) Rabbit mAb	4661	20 µl	32 kDa	Rabbit IgG
Anti-mouse IgG, HRP-linked Antibody	7076	100 µl		Horse
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The Mitochondrial Marker Antibody Sampler Kit provides an economical means to evaluate relevant mitochondial proteins. This kit contains enough primary antibody to perform two western blots per primary.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.
Background	The Mitochondrial Marker Antibody Sampler Kit contains a variety of antibodies directed against established mitochondrial proteins. Cytochrome c oxidase (COX) is a hetero-oligomeric enzyme consisting of 13 subunits localized to the inner mitochondrial membrane (1). Cytochrome c is a well conserved electron-transport protein and is part of the respiratory chain localized to the mitochondrial intermembrane space (2). HSP60 has primarily been known as a mitochondrial protein that is important for folding key proteins after import into the mitochondria (3). In the mitochondria, prohibitins (PHB1) mainly exist as membrane-bound ring complexes and function as chaperones maintaining mitochondrial protein stability during protein synthesis and transportation (4). In mammalian cells, the pyruvate dehydrogenase complex is located in the mitochondrial matrix (5). Succinate dehydrogenase (SDH), also known as Complex II or succinate quinone oxidoreductase, is a key component of the citric acid cycle and the electron transport chain (6). SOD1 is ubiquitously expressed and is localized in the cytosol, nucleus, and mitochondrial intermembrane space (7). Voltage- dependent anion channel (VDAC), ubiquitously expressed and located in the outer mitochondrial membrane, is generally thought to be the primary means by which metabolites diffuse in and out of the mitochondria (8).
Background References	<ol> <li>Ostermeier, C. et al. (1996) <i>Curr Opin Struct Biol</i> 6, 460-6.</li> <li>Schägger, H. (2002) <i>Biochim Biophys Acta</i> 1555, 154-9.</li> <li>Jindal, S. et al. (1989) <i>Mol Cell Biol</i> 9, 2279-83.</li> <li>Tatsuta, T. et al. (2005) <i>Mol Biol Cell</i> 16, 248-59.</li> <li>Strumiło, S. (2005) <i>Acta Biochim Pol</i> 52, 759-64.</li> <li>Oyedotun, K.S. and Lemire, B.D. (2004) <i>J Biol Chem</i> 279, 9424-31.</li> <li>Sherman, L. et al. (1983) <i>Proc Natl Acad Sci U S A</i> 80, 5465-9.</li> <li>Craigen, W.J. and Graham, B.H. (2008) <i>J Bioenerg Biomembr</i> 40, 207-12.</li> </ol>
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