Conjugate)

Store at -20C

d

Cell Signaling COX IV (3E11) Rabbit mAb (HRP TECHNOLOGY® Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB ⊢	Reactivity: I R Mk Z B Pg	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P13073	Entrez-Gene Id: 1327	
Product Usage Information		lication tern Blotting			Dilution 1:1000		
Storage			n 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and rol. Store at –20°C. Do not aliquot the antibodies.				
Specificity / Sensitiv	vity cox	IV (3E11) Rabbit r	nAb (HRP Conju	gate) detects endogeno	us levels of total COX	IV protein.	
Source / Purification		clonal antibody is ues surrounding Ly		nunizing animals with a s OX IV.	synthetic peptide corre	esponding to	
Product Description	perox	This Cell Signaling Technology (CST) antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody (COX IV (3E11) Rabbit mAb #4850).					
MW (kDa)					17		
Background	mitoc reduc inner mitoc studie	Cytochrome c oxidase (COX) is a hetero-oligomeric enzyme consisting of 13 subunits localized to the inner mitochondrial membrane (1-3). It is the terminal enzyme complex in the respiratory chain, catalyzing the reduction of molecular oxygen to water coupled to the translocation of protons across the mitochondrial inner membrane to drive ATP synthesis. The 3 largest subunits forming the catalytic core are encoded by mitochondrial DNA, while the other smaller subunits, including COX IV, are nuclear-encoded. Research studies have shown that deficiency in COX activity correlates with a number of human diseases (4). The COX IV antibody can be used effectively as a mitochondrial loading control in cell-based research assays.					
Background Refere	2. Ca 3. Ka	 Ostermeier, C. et al. (1996) <i>Curr. Opin. Struct. Biol.</i> 6, 460-466. Capaldi, R.A. et al. (1983) <i>Biochim. Biophys. Acta</i> 726, 135-148. Kadenbach, B. et al. (2000) <i>Free Radic. Biol. Med.</i> 29, 211-221. Barrientos, A. et al. (2002) <i>Gene</i> 286, 53-63. 					
Species Reactivity	Specie	es reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).	
Western Blot Buffer	RTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB:	Western Blotting					
Cross-Reactivity Ke	X: Xenopus			ouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse Rab: rabbit All: all species expected			
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COX IV (3E11) Rabbit mAb (HRP Conjugate) (#5247) Datasheet Without Images Cell Signaling Technology

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