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COX IV (3E11) Rabbit mAb (Alexa Fluor® 647 Conjugate)



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

Applications: IF-IC, FC-FP	Reactivity: H R Mk Z B Pg	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P13073	Entrez-Gene Id: 1327	
Product Usage Information	Арј	olication			Dilution	
	Imn	nunofluorescence	(Immunocytochemistry)		1:200	
	Flo	w Cytometry (Fixe	ed/Permeabilized)		1:50	
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity / Sensi	,	COX IV (3E11) Rabbit mAb (Alexa Fluor $^{\otimes}$ 647 Conjugate) detects endogenous levels of total COX IV protein.				
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys29 of human COX IV protein.				
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested inhouse for direct flow cytometric and immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated COX IV (3E11) Rabbit mAb #4850.					
mitochondrial membrane (1-3). It is the to reduction of molecular oxygen to water of inner membrane to drive ATP synthesis. mitochondrial DNA, while the other smal studies have shown that deficiency in CO				ligomeric enzyme consisting of 13 subunits localized to the inner minal enzyme complex in the respiratory chain, catalyzing the upled to the translocation of protons across the mitochondrial ne 3 largest subunits forming the catalytic core are encoded by subunits, including COX IV, are nuclear-encoded. Research activity correlates with a number of human diseases (4). The sa mitochondrial loading control in cell-based research assays.		
Background Refe	2. Ca	 Ostermeier, C. et al. (1996) Curr. Opin. Struct. Biol. 6, 460-466. Capaldi, R.A. et al. (1983) Biochim. Biophys. Acta 726, 135-148. Kadenbach, B. et al. (2000) Free Radic. Biol. Med. 29, 211-221. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key
Cross-Reactivity Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

 $\textbf{H:} \ \text{human} \ \textbf{M:} \ \text{mouse} \ \textbf{R:} \ \text{rat} \ \textbf{Hm:} \ \text{hamster} \ \textbf{Mk:} \ \text{monkey} \ \textbf{Vir:} \ \text{virus} \ \textbf{Mi:} \ \text{mink} \ \textbf{C:} \ \text{chicken} \ \textbf{Dm:} \ \textbf{D.} \ \text{melanogaster}$

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

4. Barrientos, A. et al. (2002) Gene 286, 53-63.

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