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anti-COX IV antibody (N-Term)

6 Images

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Publications



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Quantity:	100 μL	
Target:	COX IV (COX4I1)	
Binding Specificity:	N-Term	
Reactivity:	Human, Rat, Mouse, Dog, Cow, Guinea Pig, Horse, Rabbit	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This COX IV antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC)	
Product Details		
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human COX4I1	
Sequence:	AISTSVCVRA HESVVKSEDF SLPAYMDRRD HPLPEVAHVK HLSASQKALK	
Predicted Reactivity:	Cow: 86%, Dog: 86%, Guinea Pig: 86%, Horse: 86%, Human: 100%, Mouse: 85%, Rabbit: 86%, Rat: 86%	
Characteristics:	This is a rabbit polyclonal antibody against COX4I1. It was validated on Western Blot and immunohistochemistry.	
Purification:	Protein A purified	
Target Details		
Target:	COX IV (COX4I1)	

Target Details

Alternative Name:	COX4I1 (COX4I1 Products)	
Background:	Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is	
	a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to	
	molecular oxygen and contributes to a proton electrochemical gradient across the inner	
	mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded	
	subunits. The mitochondrially-encoded subunits perform the electron transfer and proton	
	pumping activities. The functions of the nuclear-encoded subunits are unknown but they may	
	play a role in the regulation and assembly of the complex. COX4I1 is the nuclear-encoded	
	subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme.Cytochrome c	
	oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-	
	subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecula	
	oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial	
	membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The	
	mitochondrially-encoded subunits perform the electron transfer and proton pumping activities.	
	The functions of the nuclear-encoded subunits are unknown but they may play a role in the	
	regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV	
	isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the	
	NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it.	
	Alias Symbols: COX4, COXIV, MGC72016, COX4-1	
	Protein Interaction Partner: SDCBP, COX1, env, APP, UBC, ICT1, TMBIM4, NELFCD,	
	Protein Size: 169	
Molecular Weight:	19 kDa	
Gene ID:	1327	
NCBI Accession:	NM_001861, NP_001852	
UniProt:	P13073	
Pathways:	Proton Transport	
Application Details		
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
	Antigen size: 169 AA	
Comment:	Artiger Size. 109 AA	

Handling

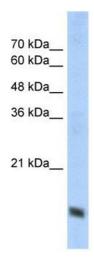
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:

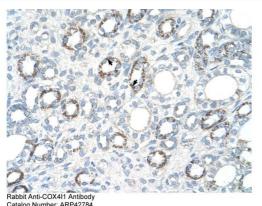
Yang, Kitamura, Wu, Chang, Ling, Kuo: "Tooth Germ-Like Construct Transplantation for Whole-Tooth Regeneration: An In Vivo Study in the Miniature Pig." in: **Artificial organs**, Vol. 40, Issue 4, pp. E39-50, (2016) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-COX4I1 Antibody Titration: 1.25ug/ml Positive Control: HepG2 cell lysate COX4I1 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells



Catalog Number: ARP42784 Lot Number: QC12117 Paraffin Embeded Tissue: Human Kidney Cells with Positive label: Epithelial cells of renal tubule (Indicated with Arrows) Antibody Concentration: 2.0 µg/ml Magnification: 400X

1 2 3 4 23 kDa_ 17 kDa_ 7kDa_

See Immunoblot 3 Data and Customer Feedback for more Information

Immunohistochemistry

Image 2. Human kidney

Western Blotting

Image 3. Lanes: Lane 1: 50ug HeLa lysate Lane 2: 50ug 293T lysate Lane 3: 50ug K562 lysate Lane 4: 50ug MDA-MB-231 lysate Primary Antibody Dilution: 1:1000 Secondary Antibody: Anti-rabbit-HRP Secondary Antibody Dilution: 1:1000 Gene Name: COX4I1 Submitted by: David Colecchia, Ph.D, Istituto Toscano Tumori, Core Research Laboratory, presso Fondazione Toscana Life Sciences

Please check the product details page for more images. Overall 6 images are available for ABIN2775574.