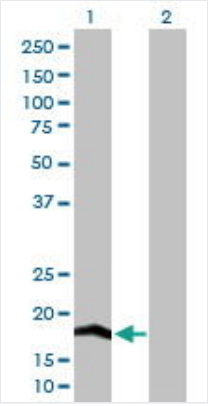
COX4I2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX4I2, Polyclonal Antibody
Full Product Name	COX4I2 (Cytochrome C Oxidase Subunit 4 Isoform 2, Mitochondrial, Cytochrome C Oxidase Subunit IV Isoform 2, COX IV-2, COX4L2) (FITC)
Product Gene Name	anti-COX4I2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human COX4I2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, cer
Molecular Weight	20,010 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (30225691..30232800). Location: 20q11.21
OMIM	607976
3D Structure	ModBase 3D Structure for Q96KJ9
Immunogen	Full length human COX4I2, aa1-171 (NP_115998.2).
Immunogen Sequence	MLPRAAWSLVLRKGGGGRRGMHSSEGTTRGGGKMSPYTNCYAQRYYPMPEEPFCTELNAEEQALKEKEKGSWTQLTHAEKVALYRLQFNETFAEMNF
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-COX4I2 antibody	Antibodies; Cytochrome
Applications Tested/Suitable for anti-COX4I2 antibody	Western Blot (WB)
Application Notes for anti-COX4I2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-COX4I2 antibody	Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits m Isoform 1 of subunit IV is encoded by a different gene, however, the two genes show a similar structural organization. Subunit IV is the largest nuclear
Other Notes	Small volumes of anti-COX4I2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for COX4I2 purchase	MBS6374503 is an antibody targeting COX4I2. Also known as COX4I2 (Cytochrome C Oxidase Subunit 4 Isoform 2, Mitochondrial, Cytochrome C Oxi



Western Blot (WB) of anti-COX4I2 antibody
Western Blot analysis of COX4I2 expression in transfected 293T cell line by COX4I2 polyclonal antibody. Lane 1: COX4I2 transfected lysate (20kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX4I2. It may not necessarily be applicable to this product.

NCBI GI #	17999526
NCBI GeneID	84701
NCBI Accession #	NP_115998.2
UniProt Primary Accession #	Q96KJ9
UniProt Secondary Accession #	Q6GTF4; Q9H0Z4
UniProt Related Accession #	Q96KJ9
GenBank Nucleotide #	NM_032609.2
NCBI Official Full Name	cytochrome c oxidase subunit 4 isoform 2, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase subunit IV isoform 2 (lung)
NCBI Official Symbol	COX4I2
NCBI Official Synonym Symbols	COX4; COX4B; COX4-2; COX4L2; COXIV-2; dJ857M17.2
UniProt Protein Name	Cytochrome c oxidase subunit 4 isoform 2, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase subunit IV isoform 2
UniProt Gene Name	COX4I2
UniProt Synonym Gene Names	COX4L2; COX IV-2
UniProt Entry Name	COX42_HUMAN
NCBI Protein Information	cytochrome c oxidase subunit 4 isoform 2, mitochondrial; COX IV-2; cytochrome c oxidase subunit IV-like 2

UniProt Comments for COX4I2	COX4I2: This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. Defects in COX4I2 are the cause of exocrine pancreatic insufficiency dyserythropoietic anemia and calvarial hyperostosis (EPIDACH). Patients present with pancreatic insufficiency, intestinal malabsorption, failure to thrive, and anemia soon after birth. Belongs to the cytochrome c oxidase IV family. Protein type: Oxidoreductase; Mitochondrial Chromosomal Location of Human Ortholog: 20q11.21 Cellular Component: mitochondrial respiratory chain complex IV Molecular Function: cytochrome-c oxidase activity Biological Process: generation of precursor metabolites and energy; cellular respiration Disease: Exocrine Pancreatic Insufficiency, Dyserythropoietic Anemia, And Calvarial Hyperostosis
Research Articles on COX4I2	**1.** Identification of three transcription factors that bind a conserved responsive element of the COX4I2 gene, namely recombination signal sequence-binding protein Jkappa (RBPJ), coiled-coil-helix-coiled-coil-helix domain 2 (CHCHD2) and CXXC finger protein 5 (CXXC5).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/cox4i2/6374503