COX5a Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	COX5a, Polyclonal Antibody
Full Product Name	COX5a Polyclonal Antibody
Product Gene Name	anti-COX5a antibody
Clonality	Polyclonal
Molecular Weight	16,762 Da
OMIM	603773
3D Structure	ModBase 3D Structure for P20674
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-COX5a antibody	MBS8522057 is an antibody targeting COX5a. Also known as COX5a Polyclonal Antibody.
Other Notes	Small volumes of anti-COX5a antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX5a. It may not necessarily be applicable to this product.

NCBI GI #	190885499
NCBI GeneID	9377
NCBI Accession #	NP_004246.2
UniProt Primary Accession #	P20674
UniProt Secondary Accession #	P30045; Q8TB65
UniProt Related Accession #	P20674
GenBank Nucleotide #	NM_004255.3
NCBI Official Full Name	cytochrome c oxidase subunit 5A, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase subunit 5A
NCBI Official Symbol	COX5A
NCBI Official Synonym Symbols	VA; COX; COX-VA
UniProt Protein Name	Cytochrome c oxidase subunit 5A, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase polypeptide Va
Protein Family	Cytochrome c oxidase
UniProt Gene Name	COX5A
NCBI Protein Information	cytochrome c oxidase subunit 5A, mitochondrial

NCBI Summary for COX5a	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 of 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 Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22. [provided by RefSeq, Jul 2008]
UniProt Comments for COX5a	This is the heme A-containing chain of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
Research Articles on COX5a	**1.** The monomeric COX1 assembly intermediate accumulates demonstrating a function of COX5A in complex IV biogenesis. A potential therapeutic lead is demonstrated by showing that copper supplementation leads to partial rescue of complex IV deficiency in patient fibroblasts.
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