COX7B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX7B, Polyclonal Antibody
Full Product Name	COX7B Antibody
Product Gene Name	anti-COX7B antibody
Product Synonym Gene Name	COX7B
Product Synonym Names	APLCC
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total COX7B protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	9,161 Da
OMIM	gene 300887
3D Structure	ModBase 3D Structure for P24311
Immunogen	Fusion protein corresponding to a region derived from internal residues of human Cytochrome c oxidase subunit VIIb
Product Categories/Family for anti-COX7B antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-COX7B antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-COX7B antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-COX7B antibody	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes subunit VIIb, which is highly similar to bovine COX VIIb protein and is found in all tissues. This gene may have several pseudogenes on chromosomes 1, 2, 20 and 22
Other Notes	Small volumes of anti-COX7B 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.
Searchable Terms for COX7B purchase	MBS8588935 is an antibody targeting COX7B. Also known as COX7B Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX7B. It may not necessarily be applicable to this product.

NCBI GI #	30151
NCBI GeneID	1349
NCBI Accession #	CAA78613.1
UniProt Primary Accession #	P24311
UniProt Secondary Accession #	Q6ICR1; B2R4M3
UniProt Related Accession #	P24311
NCBI Official Full Name	cytochrome c oxidase subunit VIIb
NCBI Official Synonym Full Names	cytochrome c oxidase subunit VIIb
NCBI Official Symbol	COX7B
NCBI Official Synonym Symbols	APLCC
UniProt Protein Name	Cytochrome c oxidase subunit 7B, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase polypeptide VIIb
Protein Family	Cytochrome c oxidase
UniProt Gene Name	COX7B
UniProt Entry Name	COX7B_HUMAN
NCBI Protein Information	cytochrome c oxidase subunit 7B, mitochondrial; cytochrome-c oxidase chain VIIb; cytochrome c oxidase polypeptide VIIb
NCBI Summary for COX7B	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes subunit VIIb, which is highly similar to bovine COX VIIb protein and is found in all tissues. This gene may have several pseudogenes on chromosomes 1, 2, 20 and 22. [provided by RefSeq, Jun 2011]
UniProt Comments for COX7B	COX7B: This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. Belongs to the cytochrome c oxidase VIIb family. Protein type: Membrane protein, integral; Mitochondrial; Oxidoreductase Chromosomal Location of Human Ortholog: Xq21.1 Cellular Component: mitochondrial inner membrane; integral to membrane; mitochondrial respiratory chain Molecular Function: cytochrome-c oxidase activity Biological Process: cellular metabolic process; central nervous system development; transmembrane transport Disease: Aplasia Cutis Congenita, Reticulolinear, With Microcephaly, Facial Dysmorphism, And Other Congenital Anomalies
Research Articles on COX7B	**1.** Data indicate that recombinant (r)IL-24 stimulated the mitochondrial apoptotic pathway genes Bax, Bid, Casp8, COX6C, COX7B after 36 h.
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