COX6B1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX6B1, Polyclonal Antibody
Full Product Name	COX6B1, CT (COX6B1, COX6B, Cytochrome c oxidase subunit 6B1, Cytochrome c oxidase subunit VIb isoform 1) (MaxLight 490)
Product Gene Name	anti-COX6B1 antibody
Product Synonym Names	COX6B1; COX6B; Cytochrome c oxidase subunit 6B1; Cytochrome c oxidase subunit VIb isoform 1
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 MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	gene 220110
3D Structure	ModBase 3D Structure for P14854
Immunogen	COX6B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-86 amino acids from the C-terminal region of human COX6B1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-COX6B1 antibody	Antibodies; Enzymes; Cytochrome
Applications Tested/Suitable for anti-COX6B1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-COX6B1 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-COX6B1 antibody	Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It 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 be involved in the regulation and assembly of the complex. This nuclear gene encodes subunit VIb. Mutations in this gene are associated with severe infantile encephalomyopathy. Three pseudogenes COX6BP-1, COX6BP-2 and COX6BP-3 have been found on chromosomes 7, 17 and 22q13.1-13.2, respectively.
Product References and Citations for anti-COX6B1 antibody	Lazarou, M., et al. FEBS J. 276(22):6701-6713(2009). Massa, V., et al. Am. J. Hum. Genet. 82(6):1281-1289(2008). Sirchia, R., et al. Biol. Chem. 388(5):457-465(2007). Schmidt, T.R., et al. Gene 286(1):13-19(2002). Taanman, J.W., et al. Hum. Genet. 87(3):325-327(1991).

Other Notes	Small volumes of anti-COX6B1 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 COX6B1 purchase	MBS6288137 is an antibody targeting COX6B1. Also known as COX6B1, CT (COX6B1, COX6B, Cytochrome c oxidase subunit 6B1, Cytochrome c oxidase subunit VIb isoform 1) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX6B1. It may not necessarily be applicable to this product.

NCBI GI #	4502985
NCBI GeneID	1340
NCBI Accession #	NP_001854.1
UniProt Primary Accession #	P14854
UniProt Related Accession #	P14854
GenBank Nucleotide #	NM_001863.4
NCBI Official Full Name	cytochrome c oxidase subunit 6B1
NCBI Official Synonym Full Names	cytochrome c oxidase subunit 6B1
NCBI Official Symbol	COX6B1
NCBI Official Synonym Symbols	COXG; COX6B; COXVIb1
UniProt Protein Name	Cytochrome c oxidase subunit 6B1
UniProt Synonym Protein Names	Cytochrome c oxidase subunit VIb isoform 1; COX VIb-1
Protein Family	Cytochrome c oxidase
UniProt Gene Name	COX6B1
UniProt Synonym Gene Names	COX6B; COX VIb-1
UniProt Entry Name	CX6B1_HUMAN
NCBI Protein Information	cytochrome c oxidase subunit 6B1
UniProt Comments for COX6B1	COX6B1: Connects the two COX monomers into the physiological dimeric form. Defects in COX6B1 are a cause of mitochondrial complex IV deficiency (MT-C4D); also known as cytochrome c oxidase deficiency. A disorder of the mitochondrial respiratory chain with heterogeneous clinical manifestations, ranging from isolated myopathy to severe multisystem disease affecting several tissues and organs. Features include hypertrophic cardiomyopathy, hepatomegaly and liver dysfunction, hypotonia, muscle weakness, excercise intolerance, developmental delay, delayed motor development and mental retardation. A subset of patients manifest Leigh syndrome. Belongs to the cytochrome c oxidase subunit 6B family. Protein type: Mitochondrial; Energy Metabolism - oxidative phosphorylation Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: mitochondrion; mitochondrial inner membrane; mitochondrial intermembrane space Molecular Function: cytochrome-c oxidase activity Biological Process: cellular metabolic process; substantia nigra development; transmembrane transport Disease: Mitochondrial Complex Iv Deficiency
Research Articles on COX6B1	**1.** p2 peptide from HIV-1 enhances HIV-1 acute infection by increasing intracellular ATP production via the activation of mitochondrial cytochrome c oxidase (MT-CO) involved in the respiratory chain

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