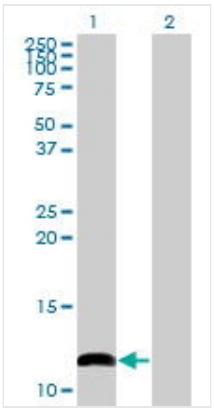
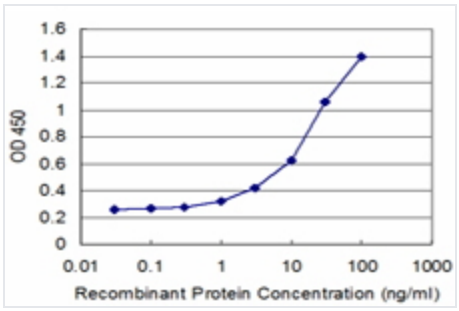
COX6B1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	COX6B1, Monoclonal Antibody
Full Product Name	COX6B1 (Cytochrome c Oxidase Subunit Vib Polypeptide 1 (ubiquitous), COX6B, COXG) (FITC)
Product Gene Name	anti-COX6B1 antibody
Product Synonym Names	Cytochrome c Oxidase Subunit Vib Polypeptide 1 (ubiquitous); COX6B; COXG
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2D3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes COX6B1.
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 store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Immunogen	COX6B1 (AAH01015, 1aa-86aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAEDMETKIKNYKTAPFDSRFPNQNQTRNCWQNYLDFHRCQKAMTAKGGDISVCEWYQRVYQSLCPTSWVTDWDEQRAEGTFPGKI
Conjugate	FITC
Product Categories/Family for anti-COX6B1 antibody	Antibodies; Enzymes; Cytochrome
Applications Tested/Suitable for anti-COX6B1 antibody	Western Blot (WB)
Application Notes for anti-COX6B1 antibody	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. Three pseudogenes COX6BP-1, COX6BP-2 and COX6BP-3 have been found on chromosomes 7, 17 and 22q13.1-13.2, respectively. [provided by RefSeq]
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	MBS6177802 is an antibody targeting COX6B1. Also known as COX6B1 (Cytochrome c Oxidase Subunit Vib Polypeptide 1 (ubiquitous), COX6B, COXG) (FITC). Host: Mouse.



Western Blot (WB) of anti-COX6B1 antibody
Western Blot analysis of COX6B1 expression in transfected 293T cell line by COX6B1 monoclonal antibody (M02), clone 2D3.Lane 1: COX6B1 transfected lysate (10.2 KDa).Lane 2: Non-transfected lysate.



Testing Data of anti-COX6B1 antibody
Detection limit for recombinant GST tagged COX6B1 is approximately 1ng/ml as a capture antibody.

ADDITIONAL DETAILS

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

NCBI GI #	12654383
NCBI GeneID	1340
NCBI Accession #	AAH01015
UniProt Related Accession #	P14854
NCBI Official Full Name	Cytochrome c oxidase subunit Vib polypeptide 1 (ubiquitous)
NCBI Official Synonym Full Names	cytochrome c oxidase subunit 6B1
NCBI Official Symbol	COX6B1
NCBI Official Synonym Symbols	COXG; COX6B; COXVIb1
Protein Family	Cytochrome c oxidase
NCBI Protein Information	cytochrome c oxidase subunit 6B1
NCBI Summary for COX6B1	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. [provided by RefSeq, Jan 2010]
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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