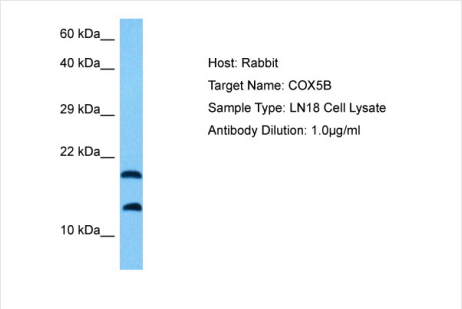
COX5B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX5B, Polyclonal Antibody
Full Product Name	COX5B Antibody - middle region
Product Gene Name	anti-COX5B antibody
Product Synonym Gene Name	COXVB
Immunogen Sequence	Synthetic peptide located within the following region: IMLAAKKGLD PYNVLAPKGA SGTREDPNLV PSISNKRIVG CICEEDNTSV
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	COX5B peptide (MBS3246531) is used for blocking the activity of COX5B antibody (MBS3221805)
Molecular Weight	14 kDa
OMIM	123866
3D Structure	ModBase 3D Structure for P10606
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human COX5B
Product Categories/Family for anti-COX5B antibody	Polyclonal; Mitochondria
Applications Tested/Suitable for anti-COX5B antibody	Western Blot (WB)
Related Product Information for anti-COX5B antibody	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 and 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 Vb of the human mitochondrial respiratory chain enzyme.
Other Notes	Small volumes of anti-COX5B 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 COX5B purchase	MBS3221805 is an antibody targeting COX5B. Also known as COX5B Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-COX5B antibody
Host: RabbitTarget Name: COX5BSample Tissue: Human LN18 Whole Cell lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX5B. It may not necessarily be applicable to this product.

NCBI GI #	17017988
NCBI GeneID	1329
NCBI Accession #	NP_001853.2
UniProt Primary Accession #	P10606
UniProt Related Accession #	P10606
GenBank Nucleotide #	NM_001862.2
NCBI Official Full Name	cytochrome c oxidase subunit 5B, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase subunit 5B
NCBI Official Symbol	COX5B
NCBI Official Synonym Symbols	COXVB
UniProt Protein Name	Cytochrome c oxidase subunit 5B, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase polypeptide Vb
Protein Family	Cytochrome c oxidase polypeptide
UniProt Gene Name	COX5B
UniProt Entry Name	COX5B_HUMAN
NCBI Protein Information	cytochrome c oxidase subunit 5B, mitochondrial
UniProt Comments for COX5B	COX5B: 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 subunit 5B family. Protein type: Energy Metabolism - oxidative phosphorylation; EC 1.9.3.1; Oxidoreductase; Mitochondrial Chromosomal Location of Human Ortholog: 2q11.2 Cellular Component: mitochondrion; mitochondrial inner membrane Molecular Function: cytochrome-c oxidase activity; metal ion binding Biological Process: cellular metabolic process; respiratory gaseous exchange; transmembrane transport
Research Articles on COX5B	**1.** Our results suggest that COX5B protein level might be associated with tumor size. COX5B overexpression indicated a worse DFS ($p < 0.05$) in breast cancer.

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/cox5b/3221805