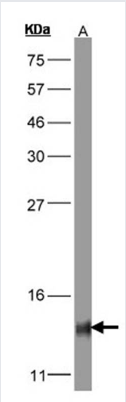
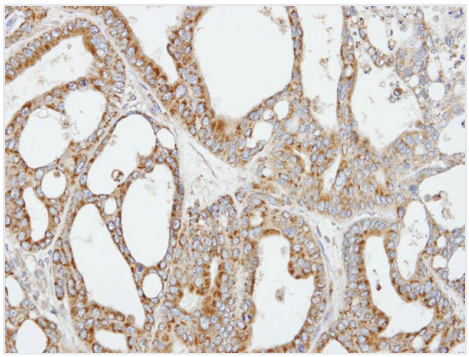
COX5B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX5B, Polyclonal Antibody
Full Product Name	COX5B antibody
Product Gene Name	anti-COX5B antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in 0.1M Tris-buffered saline with 10% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Purity/Purification	Affinity purified by Protein A.
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.
Molecular Weight	13,696 Da
OMIM	123866
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 1 and 122 of Human COX5B
Target Name	COX5B
Product Categories/Family for anti-COX5B antibody	Total protein Ab
Applications Tested/Suitable for anti-COX5B antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-COX5B antibody	Western blotting: 1:500-1:3000 Immunohistochemistry: 1:100-1:250
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. [provided by RefSeq]
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	MBS9404869 is an antibody targeting COX5B. Also known as COX5B antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-COX5B antibody
Sample(30 ug of whole cell lysate)A: Hep G215% SDS PAGEPrimary antibody diluted at 1: 1000



Immunohistochemistry (IHC) of anti-COX5B antibody
Immunohistochemical analysis of paraffin-embedded H441 xenograft, using COX5B antibody at 1: 100 dilution.

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
UniProt Secondary Accession #	Q53YB7; Q96J18; Q99610
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 Vb
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: Oxidoreductase; Mitochondrial; EC 1.9.3.1; Energy Metabolism - oxidative phosphorylation 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.** Transfected the A549 cells with COX Vb small interfering or shRNA and observed a significant reduction of their COX activity, oxygen consumption, ATP and ability to grow in soft agar and as poorly differentiated tumors in athymic mice.
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