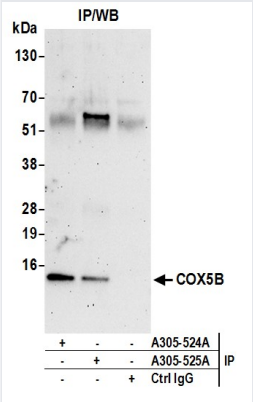
COX5B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX5B, Polyclonal Antibody
Full Product Name	Rabbit anti-COX5B Antibody, Affinity Purified
Product Gene Name	anti-COX5B antibody
Product Synonym Names	COXVB; Cytochrome c oxidase polypeptide Vb; cytochrome c oxidase polypeptide VB, mitochondrial; cytochrome c oxidase subunit 5B, mitochondrial; cytochrome c oxidase subunit Vb; epididymis secretory sperm binding protein; Cytochrome c oxidase subunit 5B, mitochondrial; cytochrome c oxidase subunit 5B
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	13,696 Da
OMIM	123866
3D Structure	ModBase 3D Structure for P10606
Predicted Reactivity	Orangutan
Immunogen	Between 79 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-COX5B antibody	Primary Antibodies
Applications Tested/Suitable for anti-COX5B antibody	Immunoprecipitation (IP)
Application Notes for anti-COX5B antibody	IP: 6ug/mg lysate
Related Product Information for anti-COX5B antibody	Cytochrome c oxidase subunit 5B (COX5B) is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/P10606].
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	MBS3905653 is an antibody targeting COX5B. Also known as Rabbit anti-COX5B Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunoprecipitation (IP) of anti-COX5B antibody
Detection of human COX5B by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from 293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-COX5B antibody MBS3905653 (lot MBS3905653-1) used for IP at 6 ug per reaction. COX5B was also immunoprecipitated by rabbit anti-COX5B antibody MBS3905652. For blotting immunoprecipitated COX5B, MBS3905653 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.

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 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; cytochrome c oxidase polypeptide VB, mitochondrial
NCBI Summary for COX5B	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, Jul 2008]

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.** 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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