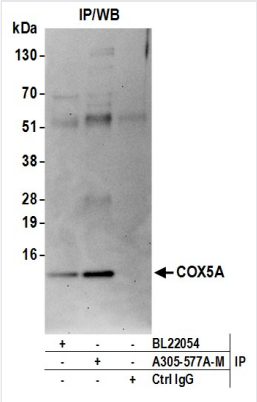
COX5A Antibody – Rabbit Polyclonal

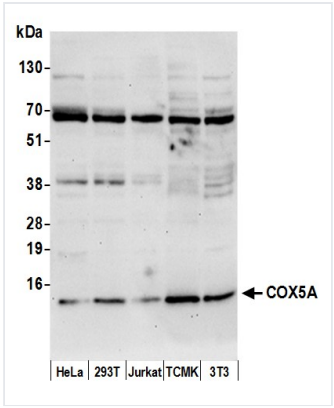
PRODUCT OVERVIEW

Product Name	COX5A, Polyclonal Antibody
Full Product Name	Rabbit anti-COX5A Antibody, Affinity Purified
Product Gene Name	anti-COX5A antibody
Product Synonym Names	COX; COX-VA; cytochrome c oxidase polypeptide Va; cytochrome c oxidase polypeptide, mitochondrial; cytochrome c oxidase subunit 5A, mitochondrial; cytochrome c oxidase subunit Va; mitochondrial cytochrome c oxidase subunit Va; VA; Cytochrome c oxidase subunit 5A, mitochondrial; cytochrome c oxidase subunit 5A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
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	16,762 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (75212616..75230495, complement). Location: 15q24.1
OMIM	603773
3D Structure	ModBase 3D Structure for P20674
Predicted Reactivity	Rat, Bovine, Monkey, Gorilla, Chimpanzee
Immunogen	Between 100 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-COX5A antibody	Primary Antibodies
Applications Tested/Suitable for anti-COX5A antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-COX5A antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate
Related Product Information for anti-COX5A 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 of 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. COX5A is the nuclear-encoded subunit Va of the human mitochondrial respiratory chain enzyme [taken from NCBI Entrez Gene (Gene ID: 9377)].
Other Notes	Small volumes of anti-COX5A 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 COX5A purchase	MBS3905699 is an antibody targeting COX5A. Also known as Rabbit anti-COX5A Antibody, Affinity Purified. Reactive in Human, Mouse. Host: Rabbit.



Immunoprecipitation (IP) of anti-COX5A antibody
Detection of human COX5A 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-COX5A antibody (MBS3905699 lot 1) used for IP at 2 ug per reaction. COX5A was also immunoprecipitated by rabbit anti-COX5A antibody BL22054. For blotting immunoprecipitated COX5A, MBS3905699 was used at 0.1 mg/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Western Blot (WB) of anti-COX5A antibody
Detection of human and mouse COX5A by western blot. Samples: Whole cell lysate (15 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-COX5A antibody (MBS3905699 lot 1) used for WB at 0.1 mg/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX5A. It may not necessarily be applicable to this product.

NCBI GI #	190885499
NCBI GeneID	9377
NCBI Accession #	NP_004246.2
UniProt Primary Accession #	P20674
UniProt Secondary Accession #	P30045; Q8TB65
UniProt Related Accession #	P20674
GenBank Nucleotide #	NM_004255.3
NCBI Official Full Name	cytochrome c oxidase subunit 5A, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase subunit Va
NCBI Official Symbol	COX5A
NCBI Official Synonym Symbols	VA; COX; COX-VA
UniProt Protein Name	Cytochrome c oxidase subunit 5A, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase polypeptide Va
Protein Family	Cytochrome c oxidase
UniProt Gene Name	COX5A
UniProt Entry Name	COX5A_HUMAN
NCBI Protein Information	cytochrome c oxidase subunit 5A, mitochondrial; cytochrome c oxidase polypeptide Va; mitochondrial cytochrome c oxidase subunit Va; cytochrome c oxidase polypeptide, mitochondrial

NCBI Summary for COX5A	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 of 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 Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22. [provided by RefSeq, Jul 2008]
UniProt Comments for COX5A	COX5A: This is the heme A-containing chain of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. Belongs to the cytochrome c oxidase subunit 5A family. Protein type: Energy Metabolism - oxidative phosphorylation; EC 1.9.3.1; Oxidoreductase; Mitochondrial Chromosomal Location of Human Ortholog: 15q24.1 Cellular Component: mitochondrial inner membrane Molecular Function: cytochrome-c oxidase activity; electron carrier activity; metal ion binding Biological Process: cellular metabolic process; transmembrane transport
Research Articles on COX5A	**1.** Our current study showed that COX Va may play a role in migration and invasion of NSCLC cells and can be used as a biomarker to predict aggressiveness of NSCLC.
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