COX5A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX5A, Polyclonal Antibody
Full Product Name	COX5A, ID (COX5A, Cytochrome c oxidase subunit 5A, mitochondrial, Cytochrome c oxidase polypeptide Va) (MaxLight 650)
Product Gene Name	anti-COX5A antibody
Product Synonym Names	COX5A; Cytochrome c oxidase subunit 5A, mitochondrial; Cytochrome c oxidase polypeptide Va
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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
Immunogen	COX5A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52~82 amino acids from the Center region of human COX5A.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-COX5A antibody	Antibodies; Enzymes; Cytochrome
Applications Tested/Suitable for anti-COX5A antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-COX5A antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-COX5A antibody	This is the heme A-containing chain of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
Product References and Citations for anti-COX5A antibody	Colinge J., et.al., Submitted (OCT-2008) to UniProtKB.

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	MBS6288084 is an antibody targeting COX5A. Also known as COX5A, ID (COX5A, Cytochrome c oxidase subunit 5A, mitochondrial, Cytochrome c oxidase polypeptide Va) (MaxLight 650). Reactive in Human. Host: Rabbit.

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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