COX17 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	COX17, Monoclonal Antibody
Full Product Name	COX17 (COX17 Cytochrome c Oxidase Assembly Homolog (S. cerevisiae), MGC104397, MGC117386) (MaxLight 650)
Product Gene Name	anti-COX17 antibody
Product Synonym Names	COX17 Cytochrome c Oxidase Assembly Homolog (S. cerevisiae); MGC104397; MGC117386
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1A9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified
Specificity	Recognizes COX17.
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.
OMIM	604813
3D Structure	ModBase 3D Structure for Q14061
Immunogen	COX17 (NP_005685, 1aa-63aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MPGLVDSNPAPPESQEKKPLKPCCACPETKKARDACIIEKGEEHCGHLIEAHKECMRALGFKI
Conjugate	MaxLight650
Product Categories/Family for anti-COX17 antibody	Antibodies; Enzymes; Cytochrome
Applications Tested/Suitable for anti-COX17 antibody	Western Blot (WB)
Application Notes for anti-COX17 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-COX17 antibody	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes a protein which is not a structural subunit, but may be involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13. [provided by RefSeq]
Other Notes	Small volumes of anti-COX17 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 COX17 purchase	MBS6227062 is an antibody targeting COX17. Also known as COX17 (COX17 Cytochrome c Oxidase Assembly Homolog (S. cerevisiae), MGC104397, MGC117386) (MaxLight 650). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX17. It may not necessarily be applicable to this product.

NCBI GI #	5031645
NCBI GeneID	10063
NCBI Accession #	NP_005685
UniProt Primary Accession #	Q14061
UniProt Related Accession #	Q14061
GenBank Nucleotide #	NP_005685.1
NCBI Official Full Name	cytochrome c oxidase copper chaperone isoform b
NCBI Official Synonym Full Names	cytochrome c oxidase copper chaperone COX17
NCBI Official Symbol	COX17
UniProt Protein Name	Cytochrome c oxidase copper chaperone
Protein Family	Cytochrome c oxidase copper chaperone
UniProt Gene Name	COX17
UniProt Entry Name	COX17_HUMAN
NCBI Protein Information	cytochrome c oxidase copper chaperone
UniProt Comments for COX17	COX17: Copper chaperone for cytochrome c oxidase (COX). Binds two copper ions and deliver them to the Cu(A) site of COX. Belongs to the COX17 family. Protein type: Mitochondrial; Energy Metabolism - oxidative phosphorylation Chromosomal Location of Human Ortholog: 3q13.33 Cellular Component: mitochondrion; cytoplasm; mitochondrial intermembrane space Molecular Function: copper ion binding; copper chaperone activity Biological Process: generation of precursor metabolites and energy; heart development; brain development; copper ion transport
Research Articles on COX17	**1.** characterize the disorder-to-order transition of a Mia40 substrate, the human small copper chaperone Cox17
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