COX10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX10, Polyclonal Antibody
Full Product Name	COX10 Polyclonal Antibody
Product Gene Name	anti-COX10 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	27kDa; 48kDa
OMIM	602125
3D Structure	ModBase 3D Structure for Q12887
Immunogen	Recombinant protein of human COX10 (NP_001294.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-COX10 antibody	Western Blot (WB)
Application Notes for anti-COX10 antibody	WB: 1:500-1:2000
Related Product Information for anti-COX10 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 heme A:farnesyltransferase, which is not a structural subunit but required for the expression of functional COX and functions in the maturation of the heme A prosthetic group of COX. This protein is predicted to contain 7-9 transmembrane domains localized in the mitochondrial inner membrane. A gene mutation, which results in the substitution of a lysine for an asparagine (N204K), is identified to be responsible for cytochrome c oxidase deficiency. In addition, this gene is disrupted in patients with CMT1A (Charcot-Marie-Tooth type 1A) duplication and with HNPP (hereditary neuropathy with liability to pressure palsies) deletion.
Other Notes	Small volumes of anti-COX10 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 COX10 purchase	MBS8573434 is an antibody targeting COX10. Also known as COX10 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX10. It may not necessarily be applicable to this product.

NCBI GI #	17921982
NCBI GeneID	1352
NCBI Accession #	NP_001294.2
UniProt Primary Accession #	Q12887
UniProt Related Accession #	Q12887
GenBank Nucleotide #	NP_001294.2
NCBI Official Full Name	protoheme IX farnesyltransferase, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase assembly factor heme A:farnesyltransferase COX10
NCBI Official Symbol	COX10
UniProt Protein Name	Protoheme IX farnesyltransferase, mitochondrial
UniProt Synonym Protein Names	Heme O synthase
Protein Family	Probable protoheme IX farnesyltransferase
UniProt Gene Name	COX10
UniProt Entry Name	COX10_HUMAN
NCBI Protein Information	protoheme IX farnesyltransferase, mitochondrial
Research Articles on COX10	**1.** On the basis of its pivotal role in regulating cell death upon COX dysfunction, CerS6 might potentially represent a novel target for therapeutic intervention in mitochondrial diseases caused by COX dysfunction.
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