COQ4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COQ4, Polyclonal Antibody
Full Product Name	COQ4 Antibody; Biotin conjugated
Product Gene Name	anti-COQ4 antibody
Product Synonym Names	Ubiquinone biosynthesis protein COQ4 homolog; mitochondrial; Coenzyme Q biosynthesis protein 4 homolog; COQ4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: COQ4 (MBS7003742) Biotin Conjugated Antibody: COQ4 (MBS7000165)
Molecular Weight	27,043 Da
OMIM	612898
3D Structure	ModBase 3D Structure for Q9Y3A0
Immunogen	Recombinant human Ubiquinone biosynthesis protein COQ4 homolog, mitochondrial protein
Conjugation	Biotin
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-83389
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-COQ4 antibody	ELISA (EIA)
Related Product Information for anti-COQ4 antibody	Component of the coenzyme Q biosynthetic pathway. May play a role in organizing a multi-subunit COQ enzyme complex required for coenzyme Q biosynthesis. Required for steady-state levels of other COQ polypeptides.
Other Notes	Small volumes of anti-COQ4 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 COQ4 purchase	MBS7000165 is an antibody targeting COQ4. Also known as COQ4 Antibody; Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COQ4. It may not necessarily be applicable to this product.

NCBI GI #	166795285

NCBI GeneID	51117
NCBI Accession #	NP_057119.2
UniProt Primary Accession #	Q9Y3A0
UniProt Secondary Accession #	Q5T4B8; Q96EW4; A8WBK8; B2R958
UniProt Related Accession #	Q9Y3A0
GenBank Nucleotide #	NM_016035.4
NCBI Official Full Name	ubiquinone biosynthesis protein COQ4 homolog, mitochondrial isoform 1
NCBI Official Synonym Full Names	coenzyme Q4
NCBI Official Symbol	COQ4
NCBI Official Synonym Symbols	CGI-92; COQ10D7
UniProt Protein Name	Ubiquinone biosynthesis protein COQ4 homolog, mitochondrial
UniProt Synonym Protein Names	Coenzyme Q biosynthesis protein 4 homolog
Protein Family	Ubiquinone biosynthesis protein
UniProt Gene Name	COQ4
UniProt Entry Name	COQ4_HUMAN
NCBI Protein Information	ubiquinone biosynthesis protein COQ4 homolog, mitochondrial
NCBI Summary for COQ4	This gene encodes a component of the coenzyme Q biosynthesis pathway. Coenzyme Q, an essential component of the electron transport chain, shuttles electrons between complexes I or II to complex III of the mitochondrial transport chain. This protein appears to play a structural role in stabilizing a complex that contains most of the coenzyme Q biosynthesis enzymes. Mutations in this gene are associated with mitochondrial disorders linked to coenzyme Q deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]
UniProt Comments for COQ4	COQ4: Component of the coenzyme Q biosynthetic pathway. May play a role in organizing a multi-subunit COQ enzyme complex required for coenzyme Q biosynthesis. Required for steady-state levels of other COQ polypeptides. Belongs to the COQ4 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 9q34.11 Cellular Component: mitochondrial inner membrane; mitochondrion Biological Process: ubiquinone biosynthetic process Disease: Coenzyme Q10 Deficiency, Primary, 7
Research Articles on COQ4	**1.** COQ4 mutations cause a broad spectrum of mitochondrial disorders associated with CoQ10 deficiency.
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