NDUFA4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NDUFA4, Polyclonal Antibody
Full Product Name	NDUFA4 Antibody
Product Gene Name	anti-NDUFA4 antibody
Product Synonym Names	CI-MLRQ; complex I-MLRQ; EC 1.6.5.3; EC 1.6.99.3; MLRQ
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total NDUFA4 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	9,370 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (10971580..10979813, complement). Location: 7p21.3
OMIM	603833
3D Structure	ModBase 3D Structure for O00483
Immunogen	Synthesized peptide derived from internal of human NDUFA4.
Product Categories/Family for anti-NDUFA4 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NDUFA4 antibody	Western Blot (WB)
Application Notes for anti-NDUFA4 antibody	WB: 1:500~1:3000
Related Product Information for anti-NDUFA4 antibody	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed to be not involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.
Product References and Citations for anti-NDUFA4 antibody	Kim J.W., Biochem. Mol. Biol. Int. 43:669-675 (1997).Kanagarajah D., Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.Ebert L., Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases
Other Notes	Small volumes of anti-NDUFA4 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 NDUFA4 purchase	MBS8588396 is an antibody targeting NDUFA4. Also known as NDUFA4 Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFA4. It may not necessarily be applicable to this product.

NCBI GI #	4505357
NCBI GeneID	4697
NCBI Accession #	NP_002480.1
UniProt Primary Accession #	O00483
UniProt Secondary Accession #	Q6FHN5; A4D109
UniProt Related Accession #	O00483
GenBank Nucleotide #	NM_002489.3
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa
NCBI Official Symbol	NDUFA4
NCBI Official Synonym Symbols	MLRQ; CI-9k; CI-MLRQ
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4
UniProt Synonym Protein Names	Complex I-MLRQ; CI-MLRQ; NADH-ubiquinone oxidoreductase MLRQ subunit
Protein Family	Cytochrome c oxidase
UniProt Gene Name	NDUFA4
UniProt Synonym Gene Names	CI-MLRQ
UniProt Entry Name	NDUA4_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4; complex I-MLRQ; Complex I 9kDa subunit; NADH-ubiquinone oxidoreductase MLRQ subunit
NCBI Summary for NDUFA4	The protein encoded by this gene belongs to the complex I 9kDa subunit family. Mammalian complex I of mitochondrial respiratory chain is composed of 45 different subunits. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. [provided by RefSeq, Jul 2008]
UniProt Comments for NDUFA4	NDUFA4: Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed to be not involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Belongs to the complex I NDUFA4 subunit family. Protein type: Oxidoreductase; Mitochondrial; Energy Metabolism - oxidative phosphorylation; EC 1.6.5.3; EC 1.6.99.3 Chromosomal Location of Human Ortholog: 7p21.3 Cellular Component: mitochondrion; mitochondrial inner membrane; mitochondrial respiratory chain complex IV; mitochondrial respiratory chain complex I Molecular Function: protein binding; cytochrome-c oxidase activity; NADH dehydrogenase (ubiquinone) activity; protein complex binding Biological Process: cellular metabolic process; mitochondrial electron transport, NADH to ubiquinone
Research Articles on NDUFA4	**1.** Observational study of gene-disease association. (HuGE Navigator)

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/ndufa4/8588396