NDUFA12 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	NDUFA12, Blocking Peptide
Full Product Name	NDUFA12 Antibody (C-term) Blocking Peptide
Product Gene Name	NDUFA12 blocking peptide
Product Synonym Gene Name	DAP13
Product Synonym Names	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12; 13 kDa differentiation-associated protein; Complex I-B172; CI-B172; CIB172; NADH-ubiquinone oxidoreductase subunit B172; NDUFA12; DAP13
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	NDUFA12 peptide (MBS9223714) is used for blocking the activity of NDUFA12 antibody (MBS9204204)
Molecular Weight	7,173 Da
OMIM	256000
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side
Related Product Information for NDUFA12 blocking peptide	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be 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.
Other Notes	Small volumes of NDUFA12 blocking peptide 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 NDUFA12 purchase	MBS9223714 is a blocking peptide targeting NDUFA12. Also known as NDUFA12 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFA12. It may not necessarily be applicable to this product.

NCBI GI #	12229870
NCBI GeneID	55967
NCBI Accession #	Q9UI09.1
UniProt Primary Accession #	Q9UI09
UniProt Secondary Accession #	Q53XX0; Q9BRV6; F8VQS7
UniProt Related Accession #	Q9UI09
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase subunit A12
NCBI Official Symbol	NDUFA12
NCBI Official Synonym Symbols	B17.2; DAP13
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12

UniProt Synonym Protein Names	13 kDa differentiation-associated protein; Complex I-B17.2; CI-B17.2; CIB17.2; NADH-ubiquinone oxidoreductase subunit B17.2
Protein Family	NADH dehydrogenase
UniProt Gene Name	NDUFA12
UniProt Synonym Gene Names	DAP13; CI-B17.2; CIB17.2
UniProt Entry Name	NDUAC_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12
NCBI Summary for NDUFA12	This gene encodes a protein which is part of mitochondrial complex 1, part of the oxidative phosphorylation system in mitochondria. Complex 1 transfers electrons to ubiquinone from NADH which establishes a proton gradient for the generation of ATP. Mutations in this gene are associated with Leigh syndrome due to mitochondrial complex 1 deficiency. Pseudogenes of this gene are located on chromosomes 5 and 13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2012]
UniProt Comments for NDUFA12	NDUFA12: Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be 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. Defects in NDUFA12 are the cause of Leigh syndrome (LS). An early-onset progressive neurodegenerative disorder characterized by the presence of focal, bilateral lesions in one or more areas of the central nervous system including the brainstem, thalamus, basal ganglia, cerebellum and spinal cord. Clinical features depend on which areas of the central nervous system are involved and include subacute onset of psychomotor retardation, hypotonia, ataxia, weakness, vision loss, eye movement abnormalities, seizures, and dysphagia. Belongs to the complex I NDUFA12 subunit family. Protein type: Oxidoreductase; Mitochondrial; EC 1.6.99.3; EC 1.6.5.3 Chromosomal Location of Human Ortholog: 12q22 Cellular Component: mitochondrial inner membrane; mitochondrial respiratory chain complex I Biological Process: mitochondrial electron transport, NADH to ubiquinone; mitochondrial respiratory chain complex I assembly; response to oxidative stress Disease: Leigh Syndrome
Research Articles on NDUFA12	**1.** NDUFA3, NDUFA5 and NDUFA12 supernumerary subunits are necessary for complex I activity and biogenesis.
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