NDUFS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NDUFS2, Polyclonal Antibody
Full Product Name	NDUFS2 (Center) Rabbit pAb
Product Gene Name	anti-NDUFS2 antibody
Product Synonym Names	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial; Complex I-49kD; CI-49kD; NADH-ubiquinone oxidoreductase 49 kDa subunit; NDUFS2
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB24542
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	252010
3D Structure	ModBase 3D Structure for O75306
Immunogen	This NDUFS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 286-315 amino acids from the central region of human NDUFS2.
Cellular Localization	Membrane, Mitochondrion, Mitochondrion Inner Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NDUFS2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-NDUFS2 antibody	WB: 1:1000 IHC: 1:50-100
Related Product Information for anti-NDUFS2 antibody	MBS8555579 is an antibody targeting NDUFS2. Also known as NDUFS2 (Center) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-NDUFS2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFS2. It may not necessarily be applicable to this product.

NCBI GI #	260898743
NCBI GeneID	4720
NCBI Accession #	NP_001159631.1
UniProt Primary Accession #	O75306

UniProt Related Accession #	O75306
GenBank Nucleotide #	NP_001159631.1
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase core subunit S2
NCBI Official Symbol	NDUFS2
NCBI Official Synonym Symbols	CI-49; MC1DN6
UniProt Protein Name	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial
UniProt Synonym Protein Names	Complex I-49kD; CI-49kD; NADH-ubiquinone oxidoreductase 49 kDa subunit
UniProt Gene Name	NDUFS2
UniProt Synonym Gene Names	CI-49kD
UniProt Entry Name	NDUS2_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial
NCBI Summary for NDUFS2	The protein encoded by this gene is a core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I). Mammalian mitochondrial complex I is composed of at least 43 different subunits, 7 of which are encoded by the mitochondrial genome, and the rest are the products of nuclear genes. The iron-sulfur protein fraction of complex I is made up of 7 subunits, including this gene product. Complex I catalyzes the NADH oxidation with concomitant ubiquinone reduction and proton ejection out of the mitochondria. Mutations in this gene are associated with mitochondrial complex I deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]
UniProt Comments for NDUFS2	NDUFS2: Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for 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 NDUFS2 are a cause of mitochondrial complex I deficiency (MT-C1D). A disorder of the mitochondrial respiratory chain that causes a wide range of clinical disorders, from lethal neonatal disease to adult-onset neurodegenerative disorders. Phenotypes include macrocephaly with progressive leukodystrophy, non-specific encephalopathy, cardiomyopathy, myopathy, liver disease, Leigh syndrome, Leber hereditary optic neuropathy, and some forms of Parkinson disease. Belongs to the complex I 49 kDa subunit family. Protein type: Mitochondrial; EC 1.6.5.3; Energy Metabolism - oxidative phosphorylation; Oxidoreductase; EC 1.6.99.3 Chromosomal Location of Human Ortholog: 1q23 Cellular Component: nucleoplasm; mitochondrion; mitochondrial inner membrane; mitochondrial respiratory chain complex I Molecular Function: protein binding; electron carrier activity; NADH dehydrogenase (ubiquinone) activity; metal ion binding; 4 iron, 4 sulfur cluster binding; NAD binding; quinone binding; NADH dehydrogenase activity Biological Process: cellular metabolic process; mitochondrial electron transport, NADH to ubiquinone; response to oxidative stress Disease: Mitochondrial Complex I Deficiency
Research Articles on NDUFS2	**1.** compound heterozygosity for severe and hypomorphic NDUFS2 mutations can cause non-syndromic hereditary optic neuropathy.
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