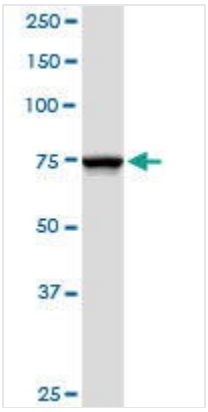
NDUFS1 Antibody – Rabbit Polyclonal

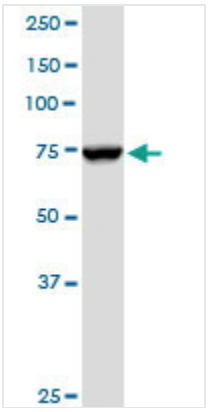
PRODUCT OVERVIEW

Product Name	NDUFS1, Polyclonal Antibody
Full Product Name	NDUFS1 (NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kD (NADH-coenzyme Q reductase), CI-75Kd, MGC26839, PRO1304) (PE)
Product Gene Name	anti-NDUFS1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NDUFS1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	75,375 Da
OMIM	157655
3D Structure	ModBase 3D Structure for P28331
Immunogen	Full length human NDUFS1, aa1-727 (NP_004997.4).
Immunogen Sequence	MLRIPVRKALVGLSKSPKGCVRTTATAASNLIEVFVDGQSVMVEPGTTVLQACEKVGMQIPRFCYHERLSVAGNCRMCLVEIEKAPKVVAACAMPVMKGV
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-NDUFS1 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-NDUFS1 antibody	Western Blot (WB)
Application Notes for anti-NDUFS1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NDUFS1 antibody	Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly re
Other Notes	Small volumes of anti-NDUFS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece

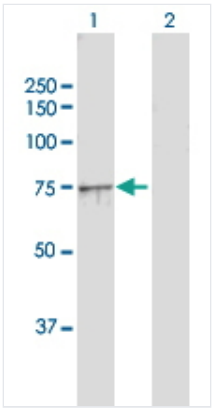
Searchable Terms for NDUFS1 purchase	MBS6386731 is an antibody targeting NDUFS1. Also known as NDUFS1 (NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kD (NADH-coenzyme



Western Blot (WB) of anti-NDUFS1 antibody
NDUFS1 rabbit polyclonal antibody. Western Blot analysis of NDUFS1 expression in human liver.



Western Blot (WB) of anti-NDUFS1 antibody
NDUFS1 rabbit polyclonal antibody. Western Blot analysis of NDUFS1 expression in HepG2.



Western Blot (WB) of anti-NDUFS1 antibody
Western Blot analysis of NDUFS1 expression in transfected 293T cell line by NDUFS1 polyclonal antibody. Lane 1: NDUFS1 transfected lysate (79.5kD). Lane 2: Non-transfected lysate

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFS1. It may not necessarily be applicable to this product.

NCBI GI #	33519475
NCBI GeneID	4719
NCBI Accession #	NP_004997.4
UniProt Primary Accession #	P28331
UniProt Secondary Accession #	Q53TR8; Q8N1C4; Q8TCC9; B4DIN9; B4DJA0; B4DPG1; B4DUC1; E7ENF3
UniProt Related Accession #	P28331
GenBank Nucleotide #	NM_005006.5
NCBI Official Full Name	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial isoform 1
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)
NCBI Official Symbol	NDUFS1

NCBI Official Synonym Symbols	CI-75k; CI-75Kd; PRO1304
UniProt Protein Name	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial
UniProt Synonym Protein Names	Complex I-75kD
UniProt Gene Name	NDUFS1
UniProt Synonym Gene Names	CI-75kD
UniProt Entry Name	NDUS1_HUMAN
NCBI Protein Information	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial; complex I 75kDa subunit; complex I, mitochondrial respiratory chain, 75-kD subunit; mitochondrial NADH-ubiquinone oxidoreductase 75 kDa subunit
NCBI Summary for NDUFS1	The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. 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. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for NDUFS1	NDUFS1: 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. This is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Defects in NDUFS1 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 75 kDa subunit family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; Energy Metabolism - oxidative phosphorylation; EC 1.6.5.3; Mitochondrial; EC 1.6.99.3 Chromosomal Location of Human Ortholog: 2q33-q34 Cellular Component: mitochondrion; mitochondrial inner membrane; mitochondrial intermembrane space; mitochondrial respiratory chain complex I Molecular Function: 2 iron, 2 sulfur cluster binding; protein binding; electron carrier activity; NADH dehydrogenase (ubiquinone) activity; 4 iron, 4 sulfur cluster binding; metal ion binding Biological Process: ATP metabolic process; cellular metabolic process; apoptotic mitochondrial changes; mitochondrial electron transport, NADH to ubiquinone; regulation of mitochondrial membrane potential; cellular respiration Disease: Mitochondrial Complex I Deficiency
Research Articles on NDUFS1	**1.** The peripheral leukocyte oxidative phosphorylation enzyme activity assay was found to be a reliable method for the diagnosis of mitochondrial diseases.
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