NDUFS7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NDUFS7, Polyclonal Antibody
Full Product Name	NDUFS7 Conjugated Antibody
Product Gene Name	anti-NDUFS7 antibody
Product Synonym Names	PSST; CI-20; MY017; CI-20KD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total NDUFS7 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	22,203 Da
OMIM	phenotype 601825
3D Structure	ModBase 3D Structure for O75251
Immunogen	Fusion protein corresponding to a region derived from internal residues of human NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-NDUFS7 antibody	Most Applications
Application Notes for anti-NDUFS7 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-NDUFS7 antibody	This gene encodes a protein that is a subunit of one of the complexes that forMouse the mitochondrial respiratory chain. This protein is one of over 40 subunits found in complex I, the nicotinamide adenine dinucleotide (NADH):ubiquinone oxidoreductase. This complex functions in the transfer of electrons from NADH to the respiratory chain, and ubiquinone is believed to be the immediate electron acceptor for the enzyme. Mutations in this gene cause Leigh syndrome due to mitochondrial complex I deficiency, a severe neurological disorder that results in bilaterally symmetrical necrotic lesions in subcortical brain regions.
Other Notes	Small volumes of anti-NDUFS7 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 NDUFS7 purchase	MBS9447101 is an antibody targeting NDUFS7. Also known as NDUFS7 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFS7. It may not necessarily be applicable to this product.

NCBI GI #	13543602
NCBI GeneID	374291
NCBI Accession #	BC005954
UniProt Primary Accession #	O75251
UniProt Secondary Accession #	Q2T9H7; Q9BV17; B3KRI2
UniProt Related Accession #	O75251
NCBI Official Full Name	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase), mRNA
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase core subunit S7
NCBI Official Symbol	NDUFS7
NCBI Official Synonym Symbols	PSST; CI-20; MY017; CI-20KD
UniProt Protein Name	NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial
UniProt Synonym Protein Names	Complex I-20kD; CI-20kD; NADH-ubiquinone oxidoreductase 20 kDa subunit; PSST subunit
Protein Family	NADH dehydrogenase [ubiquinone] iron-sulfur protein
UniProt Gene Name	NDUFS7
UniProt Synonym Gene Names	CI-20kD
UniProt Entry Name	NDUS7_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial
NCBI Summary for NDUFS7	This gene encodes a protein that is a subunit of one of the complexes that forms the mitochondrial respiratory chain. This protein is one of over 40 subunits found in complex I, the nicotinamide adenine dinucleotide (NADH):ubiquinone oxidoreductase. This complex functions in the transfer of electrons from NADH to the respiratory chain, and ubiquinone is believed to be the immediate electron acceptor for the enzyme. Mutations in this gene cause Leigh syndrome due to mitochondrial complex I deficiency, a severe neurological disorder that results in bilaterally symmetrical necrotic lesions in subcortical brain regions. [provided by RefSeq, Jul 2008]

UniProt Comments for NDUFS7	NDUFS7: 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 NDUFS7 are a cause of Leigh syndrome (LS). LS is a severe neurological disorder characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions. Defects in NDUFS7 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 20 kDa subunit family. Protein type: EC 1.6.5.3; Mitochondrial; Energy Metabolism - oxidative phosphorylation; EC 1.6.99.3; Oxidoreductase Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: neuron projection; cell soma; mitochondrial inner membrane; mitochondrial respiratory chain complex I Molecular Function: oxidoreductase activity, acting on NADH or NADPH, quinone or similar compound as acceptor; protein binding; NADH dehydrogenase (ubiquinone) activity; protease binding; 4 iron, 4 sulfur cluster binding; metal ion binding; quinone binding; NADH dehydrogenase activity Biological Process: mitochondrial respiratory chain complex I assembly; cellular metabolic process; mitochondrial electron transport, NADH to ubiquinone Disease: Leigh Syndrome
Research Articles on NDUFS7	**1.** no active role of NDUFS7 gene in schizophrenia, was found.
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-antibody/ndufs7/9447101