NDUFS3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NDUFS3, Polyclonal Antibody
Full Product Name	NDUFS3 (NADH Dehydrogenase [Ubiquinone] Iron-sulfur Protein 3, Mitochondrial, Complex I-30kD, CI-30kD, NADH-ubiquinone Oxidoreductase 30kD
Product Gene Name	anti-NDUFS3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NDUFS3. Species Crossreactivity: mouse.
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	30,242 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (47600562..47606115). Location: 11p11.11
OMIM	603846
3D Structure	ModBase 3D Structure for O75489
Immunogen	Full length human NDUFS3, aa1-264 (NP_004542.1).
Immunogen Sequence	MAAAAVARLWWRGILGASALTRGTGRPSVLLLPVRRESAGADTRPTVRPRNDVAHKQLSAFGEYVAEILPKYVQQVQVSCFNELEVCIHPDGVIPVLTFLI
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-NDUFS3 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-NDUFS3 antibody	Western Blot (WB)
Application Notes for anti-NDUFS3 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-NDUFS3 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-NDUFS3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece
Searchable Terms for NDUFS3 purchase	MBS6386741 is an antibody targeting NDUFS3. Also known as NDUFS3 (NADH Dehydrogenase [Ubiquinone] Iron-sulfur Protein 3, Mitochondrial, Cor

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFS3. It may not necessarily be applicable to this product.

NCBI GI #	4758788
NCBI GeneID	4722
NCBI Accession #	NP_004542.1
UniProt Primary Accession #	O75489
UniProt Secondary Accession #	Q9UNQ8; B2R9J1
UniProt Related Accession #	O75489
GenBank Nucleotide #	NM_004551.1
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)
NCBI Official Symbol	NDUFS3
NCBI Official Synonym Symbols	CI-30
UniProt Protein Name	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial
UniProt Synonym Protein Names	Complex I-30kD; CI-30kD; NADH-ubiquinone oxidoreductase 30 kDa subunit
UniProt Gene Name	NDUFS3
UniProt Synonym Gene Names	CI-30kD
UniProt Entry Name	NDUS3_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial; NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial; CI-30kD; complex I-30kD; complex I 30kDa subunit; NADH dehydrogenase-ubiquinone 30 kDa subunit; NADH-ubiquinone oxi
NCBI Summary for NDUFS3	This gene encodes one of the iron-sulfur protein (IP) components of mitochondrial NADH:ubiquinone oxidoreductase (complex I). Mutations in this gene are associated with Leigh syndrome resulting from mitochondrial complex I deficiency.[provided by RefSeq, Apr 2009]

UniProt Comments for NDUFS3	NDUFS3: 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. Belongs to the complex I 30 kDa subunit family. Protein type: Oxidoreductase; EC 1.6.99.3; EC 1.6.5.3; Mitochondrial; Energy Metabolism - oxidative phosphorylation Chromosomal Location of Human Ortholog: 11p11.11 Cellular Component: mitochondrion; mitochondrial inner membrane; mitochondrial membrane; nucleus; mitochondrial respiratory chain complex I Molecular Function: protein binding; NADH dehydrogenase (ubiquinone) activity; electron carrier activity; NADH dehydrogenase activity Biological Process: cellular metabolic process; substantia nigra development; mitochondrial electron transport, NADH to ubiquinone; negative regulation of cell growth Disease: Leigh Syndrome; Mitochondrial Complex I Deficiency
Research Articles on NDUFS3	**1.** a novel, biomarker potential of a mitochondrial complex I subunit protein, NDUFS3 - as a robust indicator of breast cancer progression and invasiveness as well as of hypoxia/necrosis in clinical specimens of invasive ductal carcinoma, was uncovered.
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