NDUFB7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NDUFB7, Polyclonal Antibody
Full Product Name	NDUFB7 (NADH Dehydrogenase [Ubiquinone] 1 beta SubComplex Subunit 7, Cell Adhesion Protein SQM1, Complex I-B18, CI-B18, NADH-Ubiquinone Oxidoreductase B18 Subunit, NDUFB7) (MaxLight 550)
Product Gene Name	anti-NDUFB7 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes mouse NDUFB7. 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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	16,402 Da
OMIM	603842
3D Structure	ModBase 3D Structure for P17568
Immunogen	KLH conjugated synthetic peptide corresponding to aa27-60 at the N-terminal region of human NDUFB7.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-NDUFB7 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-NDUFB7 antibody	Western Blot (WB)
Application Notes for anti-NDUFB7 antibody	WB: 1:2000 Applications are based on unconjugated antibody.
Related Product Information for anti-NDUFB7 antibody	MBS6457577 is an antibody targeting NDUFB7. Also known as NDUFB7 (NADH Dehydrogenase [Ubiquinone] 1 beta SubComplex Subunit 7, Cell Adhesion Protein SQM1, Complex I-B18, CI-B18, NADH-Ubiquinone Oxidoreductase B18 Subunit, NDUFB7) (MaxLight 550). Reactive in Mouse. Host: Rabbit.
Product References and Citations for anti-NDUFB7 antibody	Wong Y.-C., et al. Biochem. Biophys. Res. Commun. 166:984-992(1990). Triepels R., et al. Hum. Genet. 106:385-391(2000). Hu R.-M., et al. Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000). Ebert L., et al. Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases. Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Other Notes	Small volumes of anti-NDUFB7 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 NDUFB7. It may not necessarily be applicable to this product.

NCBI GI #	10764847
NCBI GeneID	4713
NCBI Accession #	NP_004137.2
UniProt Primary Accession #	P17568
UniProt Secondary Accession #	Q6ICN9; Q9UI16
UniProt Related Accession #	P17568
GenBank Nucleotide #	NM_004146.5
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase subunit B7
NCBI Official Symbol	NDUFB7
NCBI Official Synonym Symbols	B18; CI-B18
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7
UniProt Synonym Protein Names	Cell adhesion protein SQM1; Complex I-B18; CI-B18; NADH-ubiquinone oxidoreductase B18 subunit
Protein Family	NADH dehydrogenase
UniProt Gene Name	NDUFB7
UniProt Synonym Gene Names	CI-B18
UniProt Entry Name	NDUB7_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7
NCBI Summary for NDUFB7	The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is composed of 45 different subunits. It is located 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. [provided by RefSeq, Jul 2008]
UniProt Comments for NDUFB7	NDUFB7: 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. Belongs to the complex I NDUFB7 subunit family. Protein type: Energy Metabolism - oxidative phosphorylation; Oxidoreductase; EC 1.6.5.3; Mitochondrial; EC 1.6.99.3 Chromosomal Location of Human Ortholog: 19p13.12 Cellular Component: mitochondrial inner membrane; mitochondrial intermembrane space; mitochondrial respiratory chain complex I; mitochondrion Molecular Function: NADH dehydrogenase (ubiquinone) activity Biological Process: cellular metabolic process; mitochondrial electron transport, NADH to ubiquinone; mitochondrial respiratory chain complex I assembly
Research Articles on NDUFB7	**1.** Intra-molecular disulfide bridges and the inter-membrane space localization of three Cx(9)C-containing subunits in human: NDUFS5, NDUFB7 and NDUFA8, are proposed.

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