NDUFA5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NDUFA5, Polyclonal Antibody
Full Product Name	NDUFA5 (NADH Dehydrogenase [Ubiquinone] 1 alpha Subcomplex Subunit 5, Complex I Subunit B13, Complex I-13kD-B, CI-13kD-B, NADH-ubiquinc 13kD-B Subunit, DKFZp781K1356, FLJ12147) (MaxLight 405)
Product Gene Name	anti-NDUFA5 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 MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NDUFA5.
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 immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
OMIM	601677
3D Structure	ModBase 3D Structure for Q16718
Immunogen	Full length human NDUFA5, aa1-116 (NP_004991.1).
Immunogen Sequence	MAGVLKKTTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVKAEPDVKKLEDQLQGGQLEEVILQAEHELNLARKMREWKLWEI
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-NDUFA5 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-NDUFA5 antibody	Western Blot (WB)
Application Notes for anti-NDUFA5 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NDUFA5 antibody	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.

Other Notes	Small volumes of anti-NDUFA5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece 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
Searchable Terms for NDUFA5 purchase	MBS6386638 is an antibody targeting NDUFA5. Also known as NDUFA5 (NADH Dehydrogenase [Ubiquinone] 1 alpha Subcomplex Subunit 5, Comple Complex I-13kD-B, CI-13kD-B, NADH-ubiquinone Oxidoreductase 13kD-B Subunit, DKFZp781K1356, FLJ12147) (MaxLight 405). Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFA5. It may not necessarily be applicable to this product.

NCBI GI #	4826848
NCBI GeneID	4698
NCBI Accession #	NP_004991.1
UniProt Primary Accession #	Q16718
UniProt Related Accession #	Q16718
GenBank Nucleotide #	NM_005000.2
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase subunit A5
NCBI Official Symbol	NDUFA5
NCBI Official Synonym Symbols	B13; NUFM; UQOR13; CI-13kB; CI-13KD-B
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5
UniProt Synonym Protein Names	Complex I subunit B13; Complex I-13kD-B; CI-13kD-B; NADH-ubiquinone oxidoreductase 13 kDa-B subunit
Protein Family	NADH dehydrogenase
UniProt Gene Name	NDUFA5
UniProt Synonym Gene Names	CI-13kD-B
UniProt Entry Name	NDUA5_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5
NCBI Summary for NDUFA5	This nuclear gene encodes a conserved protein that comprises the B13 subunit of complex I of the mitochondrial respiratory chain. The encoded protein localizes to the inner mitochondrial membrane, where it is thought to aid in the transfer of electrons from NADH to ubiquinone. Alternative splicing results in multiple transcript variants. There are numerous pseudogenes of this gene on chromosomes 1, 3, 6, 8, 9, 11, 12, and 16. [provided by RefSeq, Apr 2014]
UniProt Comments for NDUFA5	NDUFA5: 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 NDUFA5 subunit family. Protein type: EC 1.6.5.3; Mitochondrial; Energy Metabolism - oxidative phosphorylation; Oxidoreductase; EC 1.6.99.3 Chromosomal Location of Human Ortholog: 7q31.33 Cellular Component: mitochondrial inner membrane; mitochondrial respiratory chain complex I Molecular Function: NADH dehydrogenase (ubiquinone) activity Biological Process: cellular metabolic process; mitochondrial electron transport, NADH to ubiquinone

Research Articles on NDUFA5	**1.** NDUFA3, NDUFA5 and NDUFA12 supernumerary subunits are necessary for complex I activity and biogenesis.
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