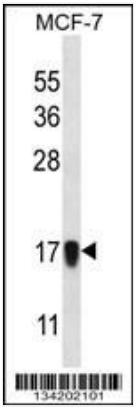
NDUFA13 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NDUFA13, Polyclonal Antibody
Full Product Name	NDUFA13, NT (NDUFA13, GRIM19, NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13, Cell death regulatory protein GRIM-19, Complex I-B16.6, Gene associated with retinoic and interferon-induced mortality 19 protein, NADH-ubiquinone oxidoreductase
Product Gene Name	anti-NDUFA13 antibody
Product Synonym Names	Anti -NDUFA13, NT (NDUFA13, GRIM19, NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13, Cell death regulatory protein GRIM-19, Complex I-B16.6, Gene associated with retinoic and interferon-induced mortality 19 protein, NADH-ubiquinone oxidoreductase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	16,698 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (19626550..19639858). Location: 19p13.2
OMIM	607464
3D Structure	ModBase 3D Structure for Q9P0J0
Immunogen	NDUFA13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human NDUFA13.
Product Categories/Family for anti-NDUFA13 antibody	Antibodies; Abs to Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-NDUFA13 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-NDUFA13 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-NDUFA13 antibody	This gene encodes a subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain. The protein is required for complex I assembly and electron transfer activity. The protein binds the signal transducers and activators of transcription 3 (STAT3) transcription factor, and can function as a tumor suppressor. The human protein purified from mitochondria migrates at approximately 16 kDa. Transcripts originating from an upstream promoter and capable of expressing a protein with a longer N-terminus have been found, but their biological validity has not been determined.

Other Notes	Small volumes of anti-NDUFA13 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 NDUFA13 purchase	MBS6007213 is an antibody targeting NDUFA13. Also known as NDUFA13, NT (NDUFA13, GRIM19, NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13, Cell death regulatory protein GRIM-19, Complex I-B16.6, Gene associated with retinoic and interferon-induced mortality 19 protein, NADH-ubiquinone oxidoreductase. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NDUFA13 antibody
NDUFA13 Antibody (N-term) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the NDUFA13 antibody detected the NDUFA13 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFA13. It may not necessarily be applicable to this product.

NCBI GI #	260763955
NCBI GeneID	51079
NCBI Accession #	NP_057049.5
UniProt Primary Accession #	Q9P0J0
UniProt Secondary Accession #	Q6PKI0; Q9H2L3; Q9Y327
UniProt Related Accession #	Q9P0J0
GenBank Nucleotide #	NM_015965.6
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13
NCBI Official Symbol	NDUFA13
NCBI Official Synonym Symbols	B16.6; CDA016; CGI-39; GRIM19; GRIM-19
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13
UniProt Synonym Protein Names	Cell death regulatory protein GRIM-19; Complex I-B16.6; CI-B16.6; Gene associated with retinoic and interferon-induced mortality 19 protein; GRIM-19; Gene associated with retinoic and IFN-induced mortality 19 protein; NADH-ubiquinone oxidoreductase B16.6 subunit
Protein Family	NADH dehydrogenase
UniProt Gene Name	NDUFA13
UniProt Synonym Gene Names	GRIM19; CI-B16.6; GRIM-19
UniProt Entry Name	NDUAD_HUMAN

NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13; CI-B16.6; complex I-B16.6; complex I B16.6 subunit; cell death-regulatory protein GRIM19; cell death regulatory protein GRIM-19; NADH-ubiquinone oxidoreductase B16.6 subunit; gene associated with retinoic and IFN-induced mortality 19 protein; gene associated with retinoic and interferon-induced mortality 19 protein
UniProt Comments for NDUFA13	GRIM-19: 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. Involved in the interferon/all-trans-retinoic acid (IFN/RA) induced cell death. This apoptotic activity is inhibited by interaction with viral IRF1. Prevents the transactivation of STAT3 target genes. May play a role in CARD15-mediated innate mucosal responses and serve to regulate intestinal epithelial cell responses to microbes. Defects in NDUFA13 may be a cause of susceptibility to Hurthle cell thyroid carcinoma (HCTC). Hurthle cell thyroid carcinoma accounts for approximately 3% of all thyroid cancers. Although they are classified as variants of follicular neoplasms, they are more often multifocal and somewhat more aggressive and are less likely to take up iodine than are other follicular neoplasms. Belongs to the complex I NDUFA13 subunit family. Protein type: Oxidoreductase; Membrane protein, integral; Mitochondrial Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: nucleoplasm; mitochondrion; mitochondrial inner membrane; cytoplasm; mitochondrial membrane; integral to membrane; mitochondrial respiratory chain; mitochondrial respiratory chain complex I Molecular Function: protein binding; NADH dehydrogenase (ubiquinone) activity; NADH dehydrogenase activity; ATP binding Biological Process: cellular metabolic process; positive regulation of protein catabolic process; positive regulation of caspase activity; negative regulation of cell growth; negative regulation of transcription, DNA-dependent; protein import into mitochondrial inner membrane Disease: Thyroid Carcinoma, Hurthle Cell
Research Articles on NDUFA13	**1.** GRIM-19 expression is closely correlated with histological grading and p-STAT3 in hepatocellular carcinoma
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