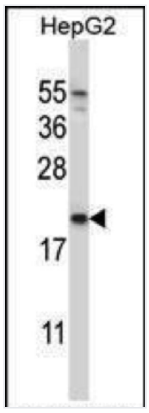
NDUFAF2 Antibody – Rabbit Polyclonal

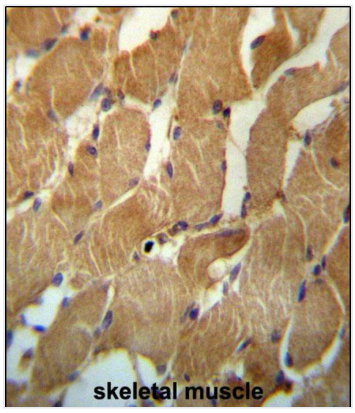
PRODUCT OVERVIEW

Product Name	NDUFAF2, Polyclonal Antibody
Full Product Name	NDUFAF2, ID (NDUFAF2, NDUFA12L, Mimitin, mitochondrial, B17.2-like, Myc-induced mitochondrial protein, NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 2, NDUFA12-like protein) (Azide free) (HRP)
Product Gene Name	anti-NDUFAF2 antibody
Product Synonym Names	NDUFAF2; NDUFA12L; Mimitin, mitochondrial; B17.2-like; Myc-induced mitochondrial protein; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 2; NDUFA12-like protein
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 Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human NDUFAF2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	19,856 Da
OMIM	252010
3D Structure	ModBase 3D Structure for Q8N183
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 71-99 in the central terminal region of human NDUFAF2.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-NDUFAF2 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-NDUFAF2 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), ELISA (EIA)
Application Notes for anti-NDUFAF2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NDUFAF2 antibody	MBS6324401 is an antibody targeting NDUFAF2. Also known as NDUFAF2, ID (NDUFAF2, NDUFA12L, Mimitin, mitochondrial, B17.2-like, Myc-induced mitochondrial protein, NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 2, NDUFA12-like protein) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-NDUFAF2 antibody	1. Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010). 2. Lesch, K.P., et al. Mol. Psychiatry (2010). 3. Herzer, M., et al. Neuropediatrics 41(1):30-34(2010). 4. Hoefs, S.J., et al. Hum. Mutat. 30 (7), E728-E736 (2009). 5. Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008).

Other Notes	Small volumes of anti-NDUFAF2 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.



Western Blot (WB) of anti-NDUFAF2 antibody
Western Blot analysis in HepG2 cell line lysates (35ug/lane), usingMBS649912. This demonstrates that MBS649912 detected the NDUFAF2 protein (arrow).



Immunohistochemistry (IHC) of anti-NDUFAF2 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle, using MBS649912 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS649912 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFAF2. It may not necessarily be applicable to this product.

NCBI GI #	29789409
NCBI GeneID	91942
NCBI Accession #	NP_777549.1
UniProt Primary Accession #	Q8N183
UniProt Secondary Accession #	A8K5I1
UniProt Related Accession #	Q8N183
GenBank Nucleotide #	NM_174889.4
NCBI Official Full Name	mimitin, mitochondrial
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) complex I, assembly factor 2
NCBI Official Symbol	NDUFAF2
NCBI Official Synonym Symbols	MMTN; B17.2L; mimitin; NDUFA12L
UniProt Protein Name	Mimitin, mitochondrial
UniProt Synonym Protein Names	B17.2-like; B17.2L; Myc-induced mitochondrial protein; MMTN; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 2; NDUFA12-like protein
Protein Family	Mimitin
UniProt Gene Name	NDUFAF2
UniProt Synonym Gene Names	NDUFA12L; B17.2L; MMTN
UniProt Entry Name	MIMIT_HUMAN
NCBI Protein Information	mimitin, mitochondrial; Myc-induced mitochondrial protein; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 2; NDUFA12-like protein

NCBI Summary for NDUFAF2	NADH:ubiquinone oxidoreductase (complex I) catalyzes the transfer of electrons from NADH to ubiquinone (coenzyme Q) in the first step of the mitochondrial respiratory chain, resulting in the translocation of protons across the inner mitochondrial membrane. This gene encodes a complex I assembly factor. Mutations in this gene cause progressive encephalopathy resulting from mitochondrial complex I deficiency. [provided by RefSeq, Jul 2008]
UniProt Comments for NDUFAF2	NDUFAF2: Acts as a molecular chaperone for mitochondrial complex I assembly. Defects in NDUFAF2 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 NDUFA12 subunit family. Chromosomal Location of Human Ortholog: 5q12.1 Cellular Component: mitochondrion Molecular Function: NADH dehydrogenase (ubiquinone) activity Disease: Leigh Syndrome; Mitochondrial Complex I Deficiency
Research Articles on NDUFAF2	**1.** Within the clinical spectrum of Leigh disease, patients with mutations in NDUFAF2 present with a distinct clinical pattern with predominantly brainstem involvement on MRI
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