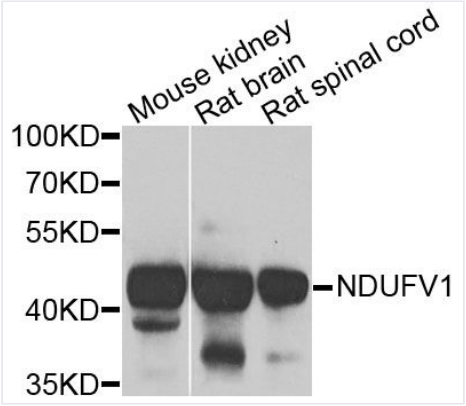
NDUFV1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NDUFV1, Polyclonal Antibody
Full Product Name	NDUFV1 Polyclonal Antibody
Product Gene Name	anti-NDUFV1 antibody
Product Synonym Names	CI-51K; CI51KD; UQOR1
Immunogen Sequence	MLATRRLLGW SLPARVSVRF SGDTTAPKKT SFGSLKDEDR IFTNLYGRHD WRLKGSLSRG DWYKTKEILL KGPDWILGEI KTSGLRGRGG AGFPTGLKWS FMNKPSDGRP KYLVVNADEG EPGTCKDREI LRHDPHKLLE GCLVGGRAMG ARAAYIYIRG EFYNEASNLQ VAIREAYEAG LIGKNACGSG YDFDVFVVRG AGAYICGEET ALIESIEGKQ GKPRLKPPFP ADVGVFGCPT TVANVETVAV
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated: 49kDa; 50kDa Observed: 51kDa
3D Structure	ModBase 3D Structure for P49821
Immunogen	Recombinant protein of human NDUFV1
Immunogen Species	Human
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Cellular Location	Matrix side, Mitochondrion inner membrane, Peripheral membrane protein
Positive Samples	Mouse kidney, Rat brain, Rat spinal cord
Product Categories/Family for anti-NDUFV1 antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NDUFV1 antibody	Western Blot (WB)
Application Notes for anti-NDUFV1 antibody	WB: 1:500 - 1:2000
Related Product Information for anti-NDUFV1 antibody	The mitochondrial respiratory chain provides energy to cells via oxidative phosphorylation and consists of four membrane-bound electron-transporting protein complexes (I-IV) and an ATP synthase (complex V). This gene encodes a 51 kDa subunit of the NADH:ubiquinone oxidoreductase complex I; a large complex with at least 45 nuclear and mitochondrial encoded subunits that liberates electrons from NADH and channels them to ubiquinone. This subunit carries the NADH-binding site as well as flavin mononucleotide (FMN)- and Fe-S-biding sites. Defects in complex I are a common cause of mitochondrial dysfunction; a syndrome that occurs in approximately 1 in 10,000 live births. Mitochondrial complex I deficiency is linked to myopathies, encephalomyopathies, and neurodegenerative disorders such as Parkinson's disease and Leigh syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Other Notes	Small volumes of anti-NDUFV1 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 NDUFV1 purchase	MBS9133376 is an antibody targeting NDUFV1. Also known as NDUFV1 Polyclonal Antibody. Reactive in Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NDUFV1 antibody
Western blot analysis of extracts of various cell lines, using NDUFV1 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFV1. It may not necessarily be applicable to this product.

NCBI GI #	260656005
NCBI GeneID	4723
NCBI Accession #	NP_001159574.1
UniProt Primary Accession #	P49821
UniProt Secondary Accession #	O60924; O60940; Q16104; Q6IBR3; Q96BF8; Q96HS7
UniProt Related Accession #	P49821
GenBank Nucleotide #	NM_001166102.1
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase core subunit V1
NCBI Official Symbol	NDUFV1
NCBI Official Synonym Symbols	UQOR1; CI-51K; CI51KD
UniProt Protein Name	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial
UniProt Synonym Protein Names	Complex I-51kD; CI-51kD; NADH dehydrogenase flavoprotein 1; NADH-ubiquinone oxidoreductase 51 kDa subunit
UniProt Gene Name	NDUFV1
UniProt Synonym Gene Names	UQOR1; CI-51kD
NCBI Protein Information	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial
UniProt Comments for NDUFV1	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 ().

Research Articles on NDUFV1	**1.** we have used a yeast model system to study the molecular consequences of 16 single amino acid substitutions, classified as pathogenic, in the NDUFV1 subunit of complex I
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