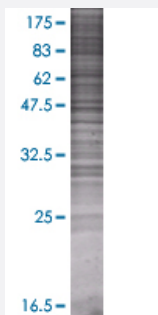


NDUFA5 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00004698-T01

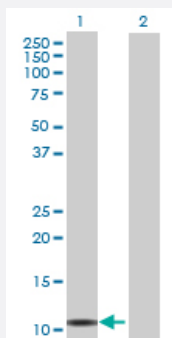
Size 100 uL

Applications



SDS-PAGE Gel

NDUFA5 transfected lysate.



Western Blot

Lane 1: NDUFA5 transfected lysate (12.87 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-NDUFA5 full-length

Host Human

Theoretical MW (kDa) 12.87

Quality Control Testing Transient overexpression cell lysate was tested with Anti-NDUFA5 antibody ([H00004698-B01](#)) by Western Blots.
SDS-PAGE Gel
NDUFA5 transfected lysate.
Western Blot
Lane 1: NDUFA5 transfected lysate (12.87 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — NDUFA5

Entrez GeneID	4698
GeneBank Accession#	NM_005000.2
Protein Accession#	NP_004991.1
Gene Name	NDUFA5
Gene Alias	B13, CI-13KD-B, DKFZp781K1356, FLJ12147, NUFM, UQOR13
Gene Description	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa
Omim ID	601677
Gene Ontology	Hyperlink

Gene Summary	The human NDUFA5 gene codes for the B13 subunit of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. The high degree of conservation of NDUFA5 extending to plants and fungi indicates its functional significance in the enzyme complex. The protein localizes to the inner mitochondrial membrane as part of the 7 component-containing, water soluble "iron-sulfur protein" (IP) fraction of complex I, although its specific role is unknown. It is assumed to undergo post-translational removal of the initiator methionine and N-acetylation of the next amino acid. The predicted secondary structure is primarily alpha helix, but the carboxy-terminal half of the protein has high potential to adopt a coiled-coil form. The amino-terminal part contains a putative beta sheet rich in hydrophobic amino acids that may serve as mitochondrial import signal. Related pseudogenes have also been identified on four other chromosomes. [provided by RefSeq]
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Other Designations	Complex I-13KD-B NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (13kD, B13) type I dehydrogenase ubiquinone reductase
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Pathway

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Prostatic Neoplasms](#)
- [Tobacco Use Disorder](#)