

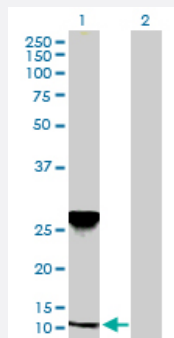
MaxPab®

NDUFA5 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00004698-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of NDUFA5 expression in transfected 293T cell line ([H00004698-T02](#)) by NDUFA5 MaxPab polyclonal antibody.

Lane 1: NDUFA5 transfected lysate(13.50 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human NDUFA5 protein.
Immunogen	NDUFA5 (NP_004991.1, 1 a.a. ~ 116 a.a) full-length human protein.
Sequence	MAGVLKKTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVKAEPDVKKL EDQLQGGQLEEVILQAEHELNLARKMREWKLWEPLVEEPPADQWKWPI
Host	Rabbit
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

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]

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

Pathway

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

Disease

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