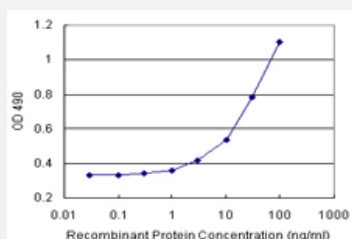


NDUFA5 (Human) Matched Antibody Pair

Catalog # H00004698-AP21 Size 1 Set

Applications



Sandwich ELISA detection sensitivity ranging from 3 ng/ml to 100 ng/ml.

Specification

Product Description	This antibody pair set comes with a matched antibody pair to detect and quantify the protein level of human NDUFA5.
Reactivity	Human
Quality Control Testing	Standard curve using recombinant protein (H00004698-P01) as an analyte. Sandwich ELISA detection sensitivity ranging from 3 ng/ml to 100 ng/ml.
Supplied Product	Antibody pair set content: 1. Capture antibody: rabbit MaxPab® affinity purified polyclonal anti-NDUFA5 (100 ug) 2. Detection antibody: mouse polyclonal anti-NDUFA5 (40 ul) *Reagents are sufficient for at least 3-5 x 96 well plates using recommended protocols.
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- ELISA Pair (Recombinant protein)

[Protocol Download](#)

Gene Info — NDUFA5

Entrez GeneID [4698](#)

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](#)