

Human NADH-Ubiquinone Oxidoreductase Chain 4L (MT-ND4L) ELISA Kit | MT-ND4L elisa kit

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CATALOG # AAA331648	REACTIVITY Human
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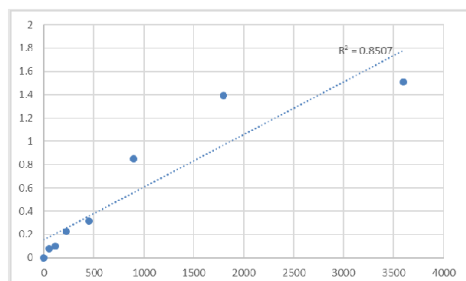
PRODUCT SYNONYMS

NADH-Ubiquinone Oxidoreductase Chain 4L (MT-ND4L); Human NADH-Ubiquinone Oxidoreductase Chain 4L (MT-ND4L) ELISA Kit; MT-ND4L; MTND4L; NADH dehydrogenase subunit 4L; MT-ND4L elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human NADH-ubiquinone oxidoreductase chain 4L (MT-ND4L) ELISA Kit has high sensitivity and excellent specificity for detection of Human MT-ND4L. No significant cross-reactivity or interference between Human MT-ND4L and analogues was observed.
Sequence Length	98
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human NADH-ubiquinone oxidoreductase chain 4L (MT-ND4L) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MT-ND4L elisa kit	Description: This Human NADH-ubiquinone oxidoreductase chain 4L (MT-ND4L) ELISA Kit employs a two-site sandwich ELISA to quantitate MT-ND4L in samples. An antibody specific for MT-ND4L has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MT-ND4L present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MT-ND4L is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MT-ND4L bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: MT-ND4L (Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 4L) is a Protein Coding gene. Diseases associated with MT-ND4L include Leber Optic Atrophy and Mitochondrial Complex I Deficiency. Among its related pathways are Respiratory electron transport, ATP synthesis by chemiosmotic coupling, and heat production by uncoupling proteins. and Metabolism. GO annotations related to this gene include NADH dehydrogenase (ubiquinone) activity and oxidoreductase activity, acting on NAD(P)H. 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 (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	251831115
NCBI GeneID	4539
NCBI Accession #	YP_003024034.1
NCBI GenBank Nucleotide #	YP_003024034.1
UniProt Accession #	P03901
NCBI Official Full Name	NADH dehydrogenase subunit 4L (mitochondrion)
NCBI Official Synonym Full Names	mitochondrially encoded NADH 4L dehydrogenase
NCBI Official Symbol	MT-ND4L
NCBI Official Synonym Symbols	MTND4L; ND4L
NCBI Protein Information	NADH dehydrogenase, subunit 4L (complex I)
UniProt Protein Name	NADH-ubiquinone oxidoreductase chain 4L
UniProt Gene Name	MT-ND4L
UniProt Synonym Gene Names	MTND4L; NADH4L; ND4L
UniProt Entry Name	NU4LM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.