

Human NADH ubiquinone oxidoreductase chain 1 (MT ND1) ELISA Kit | MT ND1 elisa kit

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CATALOG #
AAA244640

REACTIVITY
Human

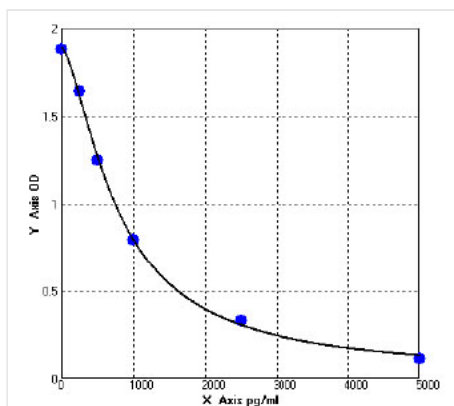
PRODUCT SYNONYMS

NADH ubiquinone oxidoreductase chain 1 (MT ND1); Human NADH ubiquinone oxidoreductase chain 1 (MT ND1) ELISA Kit; MT ND1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of MT-ND1. No significant cross-reactivity or interference between MT-ND1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between MT-ND1 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MT ND1 elisa kit	Intended Uses: This MT-ND1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human MT-ND1. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: MT-ND1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-MT-ND1 antibody and an MT-ND1-HRP conjugate. The assay sample and buffer are incubated together with MT-ND1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the MT-ND1 concentration since MT-ND1 from samples and MT-ND1-HRP conjugate compete for the anti-MT-ND1 antibody binding site. Since the number of sites is limited, as more sites are occupied by MT-ND1 from the sample, fewer sites are left to bind MT-ND1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The MT-ND1 concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	128641
NCBI GeneID	4535
Molecular Weight	35,661 Da
NCBI Official Full Name	NADH-ubiquinone oxidoreductase chain 1
NCBI Official Synonym Full Names	mitochondrially encoded NADH dehydrogenase 1
NCBI Official Symbol	MT-ND1
NCBI Official Synonym Symbols	MTND1; ND1
NCBI Protein Information	NADH dehydrogenase, subunit 1 (complex I); NADH dehydrogenase subunit 1
UniProt Protein Name	NADH-ubiquinone oxidoreductase chain 1
UniProt Gene Name	MT-ND1
UniProt Synonym Gene Names	MTND1; NADH1; ND1
UniProt Entry Name	NU1M_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/nadh-ubiquinone-oxidoreductase-chain-1-mt-nd1/244640>