

Rat NADH Dehydrogenase 1 (ND1) ELISA Kit | ND1 elisa kit

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CATALOG #
AAA65726

REACTIVITY
Rat

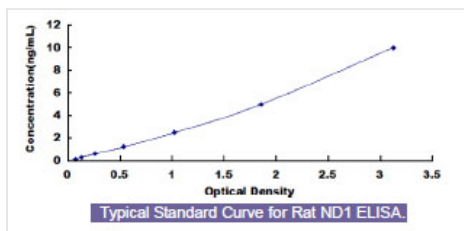
PRODUCT SYNONYMS

NADH Dehydrogenase 1 (ND1); Rat NADH Dehydrogenase 1 (ND1) ELISA Kit; MT-ND1; MTND1; NAD1; NADH-ubiquinone oxidoreductase chain 1; Mitochondrially Encoded NADH Dehydrogenase 1; ND1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ND1. No significant cross-reactivity or interference between ND1 and analogues was observed.
Sequence Length	318
Samples	Tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.068ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ND1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ND1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ND1 elisa kit	Intended Uses: This kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ND1 in rat tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ND1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ND1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ND1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of ND1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	110189663
NCBI GeneID	26193
NCBI Accession #	AP_004892.1
NCBI GenBank Nucleotide #	AP_004892.1
UniProt Accession #	P03889; O63197; Q37653; AP_000652
Molecular Weight	36,145 Da
NCBI Official Full Name	NADH dehydrogenase subunit 1 (mitochondrion)
NCBI Official Synonym Full Names	NADH dehydrogenase 1, mitochondrial
NCBI Official Symbol	mt-Nd1
NCBI Official Synonym Symbols	ND1
NCBI Protein Information	NADH dehydrogenase subunit 1
UniProt Protein Name	NADH-ubiquinone oxidoreductase chain 1
UniProt Gene Name	Mtnd1
UniProt Synonym Gene Names	mt-Nd1; Nd1

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.