

# Rat NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial (NDUFA9) ELISA Kit

Catalog No: #EK11497

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

Package Size: #EK11497-1 48T #EK11497-2 96T

## Description

Product Name	Rat NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial (NDUFA9) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	MGC111043; NDUFS2L; SDR22E1; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex; 9 NADH dehydrogenase (ubiquinone) Fe-S protein 2-like (NADH-coenzyme Q reductase) short chain dehydrogenase/reductase
Accession No.	Q5BK63
Uniprot	Q5BK63
GeneID	362440;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.057 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate NDUFA9 in samples. An antibody specific for NDUFA9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyNDUFA9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NDUFA9 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 NDUFA9 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**NDUFA9 belongs to the complex I NDUFA9 subunit family. The multisubunit NADH:ubiquinone oxidoreductase (complex I) is the first enzyme complex in the electron transport chain of mitochondria. . Fearnley et al. (1991) isolated the genes encoding the 39- and 42-kD subunits of bovine complex I. Both proteins are part of the hydrophobic protein fraction of the enzyme. However, both are predominantly hydrophilic, and appear to lie mostly outside the lipid bilayer. In a heterogeneous nuclear cDNA library of human

chromosome 12p transcribed sequences, Baens et al. (1993) identified CC6, a cDNA encoding the human homolog of the bovine 39-kD protein. The bovine and human 39-kD subunits are 78% identical on the amino acid level.

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Note: This product is for in vitro research use only