

Recombinant Human NDUFA4 293 Cell Lysate

Cat. No. NDUFA4-3919HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa (NDUFA4), nuclear gene encoding mitochondrial protein is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.

Components

This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).

Size 0.1 mg

Storage Instruction

Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

NDUFA4 NDUFA4, mitochondrial complex associated [Homo sapiens]

Official Symbol

NDUFA4

Synonyms

MLRQ; CI-9k; CI-MLRQ; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4; complex I-MLRQ; Complex I 9kDa subunit; NADH-ubiquinone oxidoreductase MLRQ subunit; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa

Gene ID

4697

mRNA Refseq

NM_002489

Protein Refseq

NP_002480

MIM

603833

UniProt ID

O00483

Chromosome Location

7p21.3

Pathway

Alzheimer's disease, organism-specific biosystem; Huntington's disease, conserved biosystem; Non-alcoholic fatty liver disease (NAFLD), conserved biosystem

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Function

NADH dehydrogenase (ubiquinone) activity; contributes_to cytochrome-c oxidase activity; protein complex binding

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