

# 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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