

Recombinant Human NDUFV2 293 Cell Lysate

Cat. No. NDUFV2-3891HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa (NDUFV2), 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 NDUFV2 NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa [Homo sapiens]

Official Symbol NDUFV2

Synonyms

NDUFV2; NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa; NADH dehydrogenase (ubiquinone) flavoprotein 2 (24kD); NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial; CI 24k; complex I 24kDa subunit; NADH dehydrogenase [ubiquinone] flavoprotein 2; mitochondrial; NADH-ubiquinone oxidoreductase 24 kDa subunit; NADH-ubiquinone oxidoreductase flavoprotein 2; complex I, mitochondrial respiratory chain, 24 kD subunit; NADH dehydrogenase ubiquinone flavoprotein 2, mitochondrial; nuclear-encoded mitochondrial NADH-ubiquinone reductase 24Kd subunit; CI-24k;

Gene ID 4729

mRNA Refseq NM_021074

Protein Refseq NP_066552

MIM 600532

UniProt ID P19404

Chromosome Location 18p11.22

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Pathway

Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

2 iron, 2 sulfur cluster binding; NAD binding; NADH dehydrogenase (ubiquinone) activity; NADH dehydrogenase (ubiquinone) activity; NADH dehydrogenase activity; electron carrier activity; metal ion binding; oxidoreductase activity;

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