

Recombinant Human NDUFA5 293 Cell Lysate

Cat. No. NDUFA5-3917HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa (NDUFA5), 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

NDUFA5 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa [Homo sapiens]

Official Symbol

NDUFA5

Synonyms

NDUFA5; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (13kD, B13); NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5; B13; CI 13kB; CI 13KD B; complex I 13kDa subunit B; NADH ubiquinone oxidoreductase 13 kDa B subunit; NUFM; type I dehydrogenase; ubiquinone reductase; UQOR13; Complex I-13KD-B; complex I subunit B13; NADH-ubiquinone oxidoreductase 13 kDa-B subunit; CI-13kB; CI-13KD-B; FLJ12147; DKFZp781K1356;

Gene ID

4698

mRNA Refseq

NM_005000

Protein Refseq

NP_004991

MIM

601677

UniProt ID

Q16718

Chromosome Location

7q31.33

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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

NADH dehydrogenase (ubiquinone) activity; oxidoreductase activity, acting on NADH or NADPH;

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