

Recombinant Human IDH3G 293 Cell Lysate

Cat. No. IDH3G-5302HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for isocitrate dehydrogenase 3 (NAD⁺) gamma (IDH3G), nuclear gene encoding mitochondrial protein, transcript variant 2 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

IDH3G isocitrate dehydrogenase 3 (NAD+) gamma [Homo sapiens]

Official Symbol

IDH3G

Synonyms

IDH3G; isocitrate dehydrogenase 3 (NAD+) gamma; isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial; IDH-gamma; NAD+-specific ICDH; NAD(+)-specific ICDH subunit gamma; isocitric dehydrogenase subunit gamma; NAD (H)-specific isocitrate dehydrogenase gamma subunit; isocitrate dehydrogenase, NAD(+)-specific, mitochondrial, gamma subunit; H-IDHG;

Gene ID

3421

mRNA Refseq

NM_174869

Protein Refseq

NP_004126

MIM

300089

UniProt ID

P51553

Chromosome Location

Xq28

Pathway

Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, first carbon oxidation, oxaloacetate =>2-

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oxoglutarate, organism-specific biosystem; Citrate cycle, first carbon oxidation, oxaloacetate => 2-oxoglutarate, conserved biosystem; Citric acid cycle (TCA cycle), organism-specific biosystem;

Function

ATP binding; NAD binding; isocitrate dehydrogenase (NAD⁺) activity; magnesium ion binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor;

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