

# Recombinant Human IDH3A 293 Cell Lysate

**Cat. No.** IDH3A-5305HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

**Species** Human

**Source** HEK293

### Description

Antigen standard for isocitrate dehydrogenase 3 (NAD<sup>+</sup>) alpha (IDH3A), 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**

IDH3A isocitrate dehydrogenase 3 (NAD+) alpha [ Homo sapiens ]

**Official Symbol**

IDH3A

**Synonyms**

IDH3A; isocitrate dehydrogenase 3 (NAD+) alpha; isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial; H IDH alpha; isocitrate dehydrogenase (NAD+) alpha chain; isocitrate dehydrogenase [NAD] subunit alpha; mitochondrial; isocitric dehydrogenase; NAD(H) specific isocitrate dehydrogenase alpha subunit; NAD+ specific ICDH; H-IDH alpha; NAD+-specific ICDH; NAD(+)-specific ICDH subunit alpha; isocitric dehydrogenase subunit alpha; NAD(H)-specific isocitrate dehydrogenase alpha subunit;

**Gene ID**

3419

**mRNA Refseq**

NM\_005530

**Protein Refseq**

NP\_005521

**MIM**

601149

**UniProt ID**

P50213

**Chromosome  
Location**

15q25.1-q25.2

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**Pathway**

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

**Function**

NAD binding; isocitrate dehydrogenase (NAD<sup>+</sup>) 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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