

Recombinant Human IDH3B 293 Cell Lysate

Cat. No. IDH3B-5304HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for isocitrate dehydrogenase 3 (NAD ⁺) beta (IDH3B), nuclear gene encoding mitochondrial protein, transcript variant 1 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

IDH3B isocitrate dehydrogenase 3 (NAD+) beta [Homo sapiens]

Official Symbol

IDH3B

Synonyms

IDH3B; isocitrate dehydrogenase 3 (NAD+) beta; isocitrate dehydrogenase [NAD] subunit beta, mitochondrial; NAD+-specific ICDH; NAD(+)-specific ICDH subunit beta; isocitric dehydrogenase subunit beta; NAD+-specific isocitrate dehydrogenase beta; NAD+-specific isocitrate dehydrogenase b subunit; isocitrate dehydrogenase, NAD(+)-specific, mitochondrial, beta subunit; RP46; H-IDHB; MGC903; FLJ11043;

Gene ID

3420

mRNA Refseq

NM_006899

Protein Refseq

NP_008830

MIM

604526

UniProt ID

O43837

**Chromosome
Location**

20p13

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

NAD binding; electron carrier activity; 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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