

Recombinant Human SDHB 293 Cell Lysate

Cat. No. SDHB-2009HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for succinate dehydrogenase complex, subunit B, iron sulfur (Ip) (SDHB), 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 [SDHB succinate dehydrogenase complex, subunit B, iron sulfur \(Ip\) \[Homo sapiens \]](#)

Official Symbol SDHB

Synonyms

SDHB; succinate dehydrogenase complex, subunit B, iron sulfur (Ip); SDH, SDH1; succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial; iron-sulfur subunit of complex II; IP; SDH; PGL4; SDH1; SDH2; SDHIP; FLJ92337;

Gene ID [6390](#)

mRNA Refseq [NM_003000](#)

Protein Refseq [NP_002991](#)

MIM [185470](#)

UniProt ID [P21912](#)

Chromosome Location 1p36.1-p35

Pathway

Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, second carbon oxidation, 2-oxoglutarate =>oxaloacetate, organism-specific biosystem; Citrate cycle, second carbon oxidation,

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2-oxoglutarate =>

Function

2 iron, 2 sulfur cluster binding; 3 iron, 4 sulfur cluster binding; 4 iron, 4 sulfur cluster binding; electron carrier activity; metal ion binding; oxidoreductase activity; protein binding; succinate dehydrogenase (ubiquinone) activity; ubiquinone binding;

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