

Recombinant Human SDHD 293 Cell Lysate

Cat. No. SDHD-2008HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for succinate dehydrogenase complex, subunit D, integral membrane protein (SDHD), 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

SDHD succinate dehydrogenase complex, subunit D, integral membrane protein [Homo sapiens]

Official Symbol

SDHD

Synonyms

SDHD; succinate dehydrogenase complex, subunit D, integral membrane protein; PGL, PGL1; succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial; QPs3; cybS; CII-4; succinate-ubiquinone reductase membrane anchor subunit; succinate-ubiquinone oxidoreductase cytochrome b small subunit; PGL; CBT1; PGL1; SDH4;

Gene ID

6392

mRNA Refseq

NM_003002

Protein Refseq

NP_002993

MIM

602690

UniProt ID

O14521

Chromosome Location

11q23

Pathway

Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved

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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, 2-oxoglutarate =>

Function

electron carrier activity; heme binding; metal ion binding; succinate dehydrogenase activity; ubiquinone binding;

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