# Recombinant Human SDHA 293 Cell Lysate

**Cat. No.** SDHA-2011HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for succinate dehydrogenase complex, subunit A, flavoprotein (Fp) (SDHA), 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

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| **Gene Name** | SDHA succinate dehydrogenase complex, subunit A, flavoprotein (Fp) [ Homo sapiens ] |
| **Official Symbol** | SDHA |
| **Synonyms** | SDHA; succinate dehydrogenase complex, subunit A, flavoprotein (Fp); SDH2; succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial; FP; SDHF; flavoprotein subunit of complex II; succinate dehydrogenase complex flavoprotein subunit; PGL5; SDH1; CMD1GG; |
| **Gene ID** | 6389 |
| **mRNA Refseq** | NM_004168 |
| **Protein Refseq** | NP_004159 |
| **MIM** | 600857 |
| **UniProt ID** | P31040 |
| **Chromosome Location** | 5p15 |
| **Pathway** | Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA |

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| | 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; flavin adenine dinucleotide binding; protein binding; succinate dehydrogenase (ubiquinone) activity; contributes_to succinate dehydrogenase activity; |

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