

Recombinant Human SIRT3 293 Cell Lysate

Cat. No. SIRT3-1833HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for sirtuin (silent mating type information regulation 2 homolog) 3 (<i>S. cerevisiae</i>) (SIRT3), transcript variant 2 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name SIRT3 sirtuin 3 [Homo sapiens]

Official Symbol SIRT3

Synonyms SIRT3; sirtuin 3; sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae) , sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 3; NAD-dependent deacetylase sirtuin-3, mitochondrial; SIR2L3; sir2-like 3; sirtuin type 3; SIR2-like protein 3; silent mating type information regulation 2, S.cerevisiae, homolog 3; mitochondrial nicotinamide adenine dinucleotide-dependent deacetylase;

Gene ID 23410

mRNA Refseq NM_001017524

Protein Refseq NP_001017524

MIM 604481

UniProt ID Q9NTG7

Chromosome Location 11p15.5

Pathway Energy Metabolism, organism-specific biosystem; Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class III, organism-specific biosystem;

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Function

NOT NAD⁺ ADP-ribosyltransferase activity; NAD⁺ binding; hydrolase activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides; metal ion binding; protein binding; zinc ion binding;

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