Recombinant Human SIRT4 293 Cell Lysate

Cat. No. SIRT4-1831HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for sirtuin (silent mating type information regulation 2 homolog) 4 (S. cerevisiae) (SIRT4) 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	SIRT4 sirtuin 4 [Homo sapiens]
Official Symbol	SIRT4
Synonyms	SIRT4; sirtuin 4; sirtuin (silent mating type information regulation 2 homolog) 4 (S. cerevisiae) , sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 4; NAD-dependent ADP-ribosyltransferase sirtuin-4; SIR2L4; sir2-like 4; sirtuin type 4; SIR2-like protein 4; MGC57437; MGC130046; MGC130047;
Gene ID	23409
mRNA Refseq	NM_012240
Protein Refseq	NP_036372
MIM	604482
UniProt ID	Q9Y6E7
Chromosome Location	12q24.31
Pathway	Signaling events mediated by HDAC Class I, organism-specific biosystem;
Function	NAD+ ADP-ribosyltransferase activity; NAD+ ADP-ribosyltransferase activity; NAD+

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	binding; NOT NAD-dependent protein deacetylase activity; metal ion binding; protein binding; transferase activity; zinc ion binding;

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