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SIRT3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02574

Basic Information

Catalog No.
RM02574

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
SIRT3

Species
Human

Gene ID
23410

Swiss Prot
Q9NTG7

Synonyms
SIR2L3

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Background

This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Two alternatively spliced transcript variants that encode different proteins have been described for this gene. [provided by RefSeq, Jul 2008]

Product Information

Description
SIRT3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:128bp deletion in exon2;Allele-2:128bp deletion in exon2
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

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WT     CGATCTCCCGTACC**************AAGGGGCTGCTTCT
Mut    CGATCTCCCGTACC***Deletion***AAGGGGCTGCTTCT
Allele-1：128bp deletion in exon2

WT     CGATCTCCCGTACC**************AAGGGGCTGCTTCT
Mut    CGATCTCCCGTACC***Deletion***AAGGGGCTGCTTCT
Allele-2：128bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and SIRT3 knockout (KO) 293T cells, using sanger sequencing.