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SIRT1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01789

Basic Information

Catalog No.
RM01789

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Species
Human

Gene ID
23411

Swiss Prot
Q96EB6

Synonyms
SIR2; SIR2L1; SIR2alpha

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]

Product Information

Description
SIRT1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:56bp deletion in exon2
Allele-2:65bp 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

WT CATAGCCTTGTCAG**********GTTGCGGGAATCCA
Mut CATAGCCTTGTCAG***Deletion***GTTGCGGGAATCCA
Allele-1：56bp deletion in exon2

WT TCACAAATTCATAG**********GTTGCGGGAATCCA
Mut TCACAAATTCATAG***Deletion***GTTGCGGGAATCCA
Allele-2：65bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and SIRT1 knockout (KO) HeLa cells, using sanger sequencing.

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