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SUMO1 Knockout 293T cell lysate, Homozygous

Catalog No.: RM50191

Basic Information

Catalog No.
RM50191

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized.

Gene Information

Gene Symbol
SUMO1

Species
Human

Gene ID
7341

Swiss Prot
P63165

Synonyms
DAP1; GMP1; PIC1; SMT3; UBL1; OFC10; SENP2; SMT3C; SMT3H3; O1

Product Information

Description
SUMO1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Sequencing data

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WT    AGTGACGCGAGGCG**********GGCCAGGGCCTTCC
Mut   AGTGACGCGAGGCG***Deletion***GGCCAGGGCCTTCC
Allele-1:    exon1 was deleted

WT    AGTGACGCGAGGCG**********GCCAGGGCCTTCCC
Mut   AGTGACGCGAGGCG***Deletion***GCCAGGGCCTTCCC
Allele-2:    exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and SUMO1 knockout (KO) 293T cells, using sanger sequencing.