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SMAD3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01973

Basic Information

Catalog No.
RM01973

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis. [provided by RefSeq, Apr 2009]

Gene Information

Gene Symbol
SMAD3

Species
Human

Gene ID
4088

Swiss Prot
P84022

Synonyms
HSPC193; HsT17436; JV15-2; LDS1C; LDS3; MADH3

Product Information

Description
SMAD3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:68bp deletion in exon3
Allele-2:68bp deletion in exon3
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

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Sequencing data

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WT    GCTGAACCAGCGCG**************GAGCGCTTCTGCCT
Mut   GCTGAACCAGCGCG***Deletion***GAGCGCTTCTGCCT
Allele-1：68bp deletion in exon3
WT    GCTGAACCAGCGCG**************GAGCGCTTCTGCCT
Mut   GCTGAACCAGCGCG***Deletion***GAGCGCTTCTGCCT
Allele-2：68bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and SMAD3 knockout (KO) 293T cells, using sanger sequencing.