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SMAD5 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02020

Basic Information

Catalog No.
RM02020

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene is involved in the transforming growth factor beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. The encoded protein is activated by bone morphogenetic proteins type 1 receptor kinase, and may be involved in cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

Gene Information

Gene Symbol
SMAD5

Species
Human

Gene ID
4090

Swiss Prot
Q99717

Synonyms
DWFC; JV5-1; MADH5

Product Information

Description
SMAD5 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:53bp deletion in exon1
Allele-2:53bp deletion in exon1
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
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

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    TTTAGATGGACGCC**************CGCTGGCCGGATTT
Mut   TTTAGATGGACGCC***Deletion***CGCTGGCCGGATTT
Allele-1：53bp deletion in exon1

WT    TTTAGATGGACGCC**************CGCTGGCCGGATTT
Mut   TTTAGATGGACGCC***Deletion***CGCTGGCCGGATTT
Allele-2：53bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and SMAD5 knockout (KO) 293T cells, using sanger sequencing.