

SMAD5 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02020

Basic Information

Catalog No.

RM02020

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

SMAD5

Species

Human

Gene ID

4090

Swiss Prot

Q99717

Synonyms

DWFC; JV5-1; MADH5

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

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]

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°C

Amount

50µL, 2µg/µL.

Storage

Lysate is stable for 12 months when stored at -20°C. 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.

Sequencing data

WT TTTAGATGGACGCC*****CGCTGGCCGGATT
Mut TTTAGATGGACGCC***Deletion***CGCTGGCCGGATT
Allele-1: 53bp deletion in exon1
WT TTTAGATGGACGCC*****CGCTGGCCGGATT
Mut TTTAGATGGACGCC***Deletion***CGCTGGCCGGATT
Allele-2: 53bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and SMAD5 knockout (KO) 293T cells, using sanger sequencing.