

MAP2K4 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50196

Basic Information

Catalog No.

RM50196

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

MAP2K4

Species

Human

Gene ID


6416

Swiss Prot

P45985

SynonymsJNKK; JNKK1; MAPKK4; MEK4; MKK4;
PRKMK4; SAPKK-1; SAPKK1; SEK1;
SERK1; SKK1

Contact

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Background

This gene encodes a member of the mitogen-activated protein kinase (MAPK) family. Members of this family act as an integration point for multiple biochemical signals and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. They form a three-tiered signaling module composed of MAPKKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKKs and subsequently phosphorylates downstream MAPK targets at threonine and tyrosine residues. A similar protein in mouse has been reported to play a role in liver organogenesis. A pseudogene of this gene is located on the long arm of chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product Information

Description

MAP2K4 Knockout 293T 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°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 GCTTGCTGCATTGC*****CGCGGCAACCCGCG
Mut GCTTGCTGCATTGC***Deletion***CGCGGCAACCCGCG
Allele-1: exon1 was deleted

WT GCAGCCGCCGCGGC*****CTGCCCCAGCGGAC
Mut GCAGCCGCCGCGGC***Deletion***CTGCCCCAGCGGAC
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and MAP2K4 knockout (KO) 293T cells, using sanger sequencing.