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MAPK10 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02054

Basic Information

Catalog No.
RM02054

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
MAPK10

Species
Human

Gene ID
5602

Swiss Prot
P53779

Synonyms
JNK3; JNK3A; PRKM10; SAPK1b; p493F12; p54bSAPK

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Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as integration points for multiple biochemical signals and are involved in a wide variety of cellular processes, such as proliferation, differentiation, transcription regulation and development. This kinase is specifically expressed in a subset of neurons in the nervous system and is activated by threonine and tyrosine phosphorylation. Targeted deletion of this gene in mice suggests that it may have a role in stress-induced neuronal apoptosis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Dec 2015]

Product Information

Description
MAPK10 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:80bp deletion in exon2
Allele-2:80bp deletion in exon2
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.

Sequencing data

WT TACAGTGCCGCGTA**********ACCGGGAGCTGGTC
Mut TACAGTGCCGCGTA***Deletion***ACCGGGAGCTGGTC
Allele-1：80bp deletion in exon2

WT TACAGTGCCGCGTA**********ACCGGGAGCTGGTC
Mut TACAGTGCCGCGTA***Deletion***ACCGGGAGCTGGTC
Allele-2：80bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and MAPK10 knockout (KO) HeLa cells, using sanger sequencing.

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