

# 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

## Contact

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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°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

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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.