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MAPK3 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02249

Basic Information

Catalog No.
RM02249

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
MAPK3

Species
Human

Gene ID
5595

Swiss Prot
P27361

Synonyms
ERK-1; ERK1; ERT2; HS44KDAP; HUMKER1A; P44ERK1; P44MAPK; PRKM3; p44-ERK1; p44-MAPK

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Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008]

Product Information

Description
MAPK3 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:56bp deletion in exon2
Allele-2:57bp 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

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WT    CGTGCGCAAGACTC**********CTCCGGGAGATCCA
Mut   CGTGCGCAAGACTC***Deletion***CTCCGGGAGATCCA
Allele-1:   56bp deletion in exon2

WT    CGTGCGCAAGACTC**********TCCGGGAGATCCAG
Mut   CGTGCGCAAGACTC***Deletion***TCCGGGAGATCCAG
Allele-2:   57bp deletion in exon2
```

Genome sequence analysis of PCR products from parental (WT) and MAPK3 Knockdown (KD) 293T cells, using sanger sequencing.