

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°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 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.