

MAP3K8 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02187

Basic Information

Catalog No.

RM02187

Category

Cell Line

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

MAP3K8

Species

Human

Gene ID

1326

Swiss Prot

P41279

SynonymsAURA2; COT; EST; ESTF; MEKK8; TPL2;
Tpl-2; c-COT

Contact

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Background

This gene is an oncogene that encodes a member of the serine/threonine protein kinase family. The encoded protein localizes to the cytoplasm and can activate both the MAP kinase and JNK kinase pathways. This protein was shown to activate I κ B kinases, and thus induce the nuclear production of NF- κ B. This protein was also found to promote the production of TNF- α and IL-2 during T lymphocyte activation. This gene may also utilize a downstream in-frame translation start codon, and thus produce an isoform containing a shorter N-terminus. The shorter isoform has been shown to display weaker transforming activity. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2011]

Product Information

Description

MAP3K8 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:54bp insertion and 1bp deletion in exon2

Allele-2:58bp 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 line and 1 vial knockout cell line

Shipping Conditions

Dry ice

Amount

1~5x10⁶ cells/vial

Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO₂ condition.

1. Thaw the vial in 37°C water bath, and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT ATGTTCTCCTGATC*****CCCTGGAAGCTGAC**TCGGGGCGCCTTTGGAAAGGTATACTTGG
Mut ATGTTCTCCTGATC**Insertion**CCCTGGAAGCTGAC**TCGGGGCGCCTTTG AAAGGTATACTTGG
Allele-1: 54bp insertion and 1bp deletion in exon2
WT ATGTTCTCCTGATC*****GAAAGGTATACTTG
Mut ATGTTCTCCTGATC***Deletion***GAAAGGTATACTTG
Allele-2: 58bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and MAP3K8 knockout (KO) 293T cells, using sanger sequencing.