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MAP3K8 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02187

Basic Information

Catalog No.
RM02187

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

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 IkappaB kinases, and thus induce the nuclear production of NF-kappaB. This protein was also found to promote the production of TNF-alpha 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]

Gene Information

Gene Symbol
MAP3K8

Species
Human

Gene ID
1326

Swiss Prot
P41279

Synonyms
AURA2; COT; EST; ESTF; MEKK8; TPL2; Tpl-2; c-COT

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
1~5x10^6 cells/vial

Storage
Store at -20℃

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ 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℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

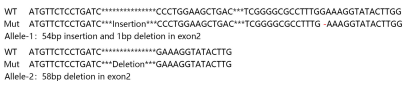
Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Sequencing data



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