

STK4 Knockout 293T Cell Line, Homozygous

Catalog No.: RM50083

Basic Information

Catalog No.

RM50083

Category

Cell Line

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

STK4

Species

Human

Gene ID

6789

Swiss Prot

Q13043

Synonyms

KRS2; MST1; YSK3

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Background

The protein encoded by this gene is a cytoplasmic kinase that is structurally similar to the yeast Ste20p kinase, which acts upstream of the stress-induced mitogen-activated protein kinase cascade. The encoded protein can phosphorylate myelin basic protein and undergoes autophosphorylation. A caspase-cleaved fragment of the encoded protein has been shown to be capable of phosphorylating histone H2B. The particular phosphorylation catalyzed by this protein has been correlated with apoptosis, and it's possible that this protein induces the chromatin condensation observed in this process. [provided by RefSeq, Jul 2008]

Product Information

Description

STK4 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:46bp deletion in exon3

Allele-2:1bp deletion in exon3

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 TAAAGAGACCGGCC*****GATAATCAAAGAAA
Mut TAAAGAGACCGGCC***Deletion***GATAATCAAAGAAA
Allele-1: 46bp deletion in exon3

WT GACCGGCCA*****ATAATCAAAGAAA
Mut GACCGGCCA*Deletion and Insertion*ATAATCAAAGAAA
Allele-2: 1bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and STK4 knockout (KO) 293T cells, using sanger sequencing.