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RPS6KB1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02163

Basic Information

Catalog No.
RM02163

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17. [provided by RefSeq, Jan 2013]

Gene Information

Gene Symbol
RPS6KB1

Species
Human

Gene ID
6198

Swiss Prot
P23443

Synonyms
PS6K; S6K; S6K-beta-1; S6K1; STK14A; p70 S6KA; p70(S6K)-alpha; p70-S6K; p70-alpha

Product Information

Description
RPS6KB1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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
Stored in liquid nitrogen for a long time less than -130℃. 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℃ 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

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Sequencing data

WT ATATTTGCCTGTTG**********ACCTGTTCTTAAAT
Mut ATATTTGCCTGTTG***Deletion***ACCTGTTCTTAAAT
Allele-1: exon1 was deleted

WT TGTTTTGTTCATTA**********TGTAGTCATATTTA
Mut TGTTTTGTTCATTA***Deletion***TGTAGTCATATTTA
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and RPS6KB1 knockout (KO) 293T cells, using sanger sequencing.