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MTOR Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM01886

Basic Information

Catalog No.
RM01886

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
MTOR

Species
Human

Gene ID
2475

Swiss Prot
P42345

Synonyms
FRAP; FRAP1; FRAP2; RAFT1; RAPT1; SKS

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Background

The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene. [provided by RefSeq, Sep 2008]

Product Information

Description
MTOR Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:121bp deletion in exon3
Allele-2:WT
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.

Sequencing data

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WT    GGGAATGCCACCCG**************TACGTGGAATTTGA
Mut   GGGAATGCCACCCG***Deletion***TACGTGGAATTTGA
Allele-1: 121bp deletion in exon3

WT    GTGGAAGGTGGGAATGCCACCCGAATTGGCAGATTTGC
Mut   GTGGAAGGTGGGAATGCCACCCGAATTGGCAGATTTGC
Allele-2: WT
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Genome sequence analysis of PCR products from parental (WT) and MTOR Knockdown (KD) HeLa cells, using sanger sequencing.