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MKI67 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01846

Basic Information

Catalog No.
RM01846

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a nuclear protein that is associated with and may be necessary for cellular proliferation. Alternatively spliced transcript variants have been described. A related pseudogene exists on chromosome X.

Gene Information

Gene Symbol
MKI67

Species
Human

Gene ID
4288

Swiss Prot
P46013

Synonyms
KIA; MIB-; MIB-1; PPP1R105

Product Information

Description
MKI67 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:101bp deletion in exon7
Allele-2:101bp deletion in exon7
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

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Sequencing data

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WT     CCAGTTGCCAGTGA**************AGAGAGTGTCTATC
Mut    CCAGTTGCCAGTGA***Deletion***AGAGAGTGTCTATC
Allele-1：101bp deletion in exon7

WT     CCAGTTGCCAGTGA**************AGAGAGTGTCTATC
Mut    CCAGTTGCCAGTGA***Deletion***AGAGAGTGTCTATC
Allele-2：101bp deletion in exon7
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Genome sequence analysis of PCR products from parental (WT) and MKI67 knockout (KO) HeLa cells, using sanger sequencing.

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