

MKI67 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01846

Basic Information

Catalog No.

RM01846

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

MKI67

Species

Human

Gene ID

4288

Swiss Prot

P46013

Synonyms

KIA; MIB-; MIB-1; PPP1R105

Contact

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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.

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

1~5x10⁶ 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 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

Genome sequence analysis of PCR products from parental (WT) and MKI67 knockout (KO) HeLa cells, using sanger sequencing.