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KRT7 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02416

Basic Information

Catalog No.
RM02416

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels. The genes encoding the type II cytokeratins are clustered in a region of chromosome 12q12-q13. Alternative splicing may result in several transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
KRT7

Species
Human

Gene ID
3855

Swiss Prot
P08729

Synonyms
CK7; K2C7; K7; SCL

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Product Information

Description
KRT7 Knockout HeLa Cell Line knockout is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:68bp deletion in exon1
Allele-2:68bp deletion in exon1
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.

Sequencing data

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WT     AGCAGCAGCCTCTA**************TCCGCGAGGTCACC
Mut    AGCAGCAGCCTCTA***Deletion***TCCGCGAGGTCACC
Allele-1：68bp deletion in exon1

WT     AGCAGCAGCCTCTA**************TCCGCGAGGTCACC
Mut    AGCAGCAGCCTCTA***Deletion***TCCGCGAGGTCACC
Allele-2：68bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and KRT7 knockout (KO) HeLa cells, using sanger sequencing.