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KRT18 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM02594

Basic Information

Catalog No.
RM02594

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
KRT18

Species
Human

Gene ID
3875

Swiss Prot
P05783

Synonyms
CK-18; CYK18; K18

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Background

KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product Information

Description
KRT18 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele1:204bp deletion in exon1;Allele2:203bp 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
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    TATAACTCGGGTCG*************GGGGGTCTGGCAGG
Mut   TATAACTCGGGTCG***Deletion***GGGGGTCTGGCAGG
Allele-1:    204bp deletion in exon1

WT    ATATAACTCGGGTC*************CGGGGGTCTGGCAG
Mut   ATATAACTCGGGTC***Deletion***CGGGGGTCTGGCAG
Allele-2:    203bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and KRT18 knockdown (KD) HeLa cells, using sanger sequencing.

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