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KRT8 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02653

Basic Information

Catalog No.
RM02653

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]

Gene Information

Gene Symbol
KRT8

Species
Human

Gene ID
3856

Swiss Prot
P05787

Synonyms
CARD2; CK-8; CK8; CYK8; K2C8; K8; KO

Product Information

Description
KRT8 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:47bp deletion in exon2
Allele-2:3bp insertion and 26bp deletion in exon2
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

WT GGAGACACCTTATG**********CTCGGTCACTTTTA
Mut GGAGACACCTTATG***Deletion***CTCGGTCACTTTTA
AIlele-1: 47bp deletion in exon2

WT GTGGC*********GGGC**GCCA *********TTACG
Mut GTGGC*Deletion*GGGC**GCCATGC*Deletion*TTACG
AIlele-2: 2bp deletion and 3bp Insertion and 24bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and KRT8 knockout (KO) 293T cells, using sanger sequencing.

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