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TJP1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02169

Basic Information

Catalog No.
RM02169

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a protein located on a cytoplasmic membrane surface of intercellular tight junctions. The encoded protein may be involved in signal transduction at cell-cell junctions. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Gene Information

Gene Symbol
TJP1

Species
Human

Gene ID
7082

Swiss Prot
Q07157

Synonyms
ZO-1

Product Information

Description
TJP1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:exon3 was deleted
Allele-2:exon3 was deleted
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    CTAATAGGTAACCA**************CGTGGGCACTGTGC
Mut   CTAATAGGTAACCA***Deletion***CGTGGGCACTGTGC
Allele-1: exon3 was deleted

WT    CTAATAGGTAACCA**************CGTGGGCACTGTGC
Mut   CTAATAGGTAACCA***Deletion***CGTGGGCACTGTGC
Allele-2: exon3 was deleted
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Genome sequence analysis of PCR products from parental (WT) and TJP1 knockout (KO) HeLa cells, using sanger sequencing.