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OCLN Knockout 293T Cell Line, Homozygous

Catalog No.: RM02719

Basic Information

Catalog No.
RM02719

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes an integral membrane protein that is required for cytokine-induced regulation of the tight junction paracellular permeability barrier. Mutations in this gene are thought to be a cause of band-like calcification with simplified gyration and polymicrogyria (BLC-PMG), an autosomal recessive neurologic disorder that is also known as pseudo-TORCH syndrome. Alternative splicing results in multiple transcript variants. A related pseudogene is present 1.5 Mb downstream on the q arm of chromosome 5.

Gene Information

Gene Symbol
OCLN

Species
Human

Gene ID
100506658

Swiss Prot
Q16625

Synonyms
BLCPMG; PTORCH1; PPP1R115; Occludin

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Product Information

Description
OCLN Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:125bp deletion in exon1
Allele-2:131bp 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    GGGGTTCATGATTA**********GAGTGGGTAAGTGT
Mut   GGGGTTCATGATTA***Deletion***GAGTGGGTAAGTGT
Allele-1:   125bp deletion in exon1

WT    GGGGTTCATGATTA**********TAAGTGTTAAAAAA
Mut   GGGGTTCATGATTA***Deletion***TAAGTGTTAAAAAA
Allele-2:   131bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and OCLN knockout (KO) 293T cells, using sanger sequencing.