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PDPN Knockout 293T Cell Line, Homozygous

Catalog No.: RM02428

Basic Information

Catalog No.
RM02428

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
PDPN

Species
Human

Gene ID
10630

Swiss Prot
Q86YL7

Synonyms
AGGRUS; GP36; GP40; Gp38; HT1A-1; OTS8; PA2.26; T1A; T1A-2; T1A2; TI1A

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Background

This gene encodes a type-I integral membrane glycoprotein with diverse distribution in human tissues. The physiological function of this protein may be related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. The specific function of this protein has not been determined but it has been proposed as a marker of lung injury. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product Information

Description
PDPN Knockout 293T Cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:73bp deletion in exon2
Allele-2:73bp 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.

Sequencing data

WT ACACTGAGACTACAG**********TAAGTCTGGCTTGA
Mut ACACTGAGACTACAG***Deletion***TAAGTCTGGCTTGA
Allele-1: 73bp deletion in exon2

WT ACACTGAGACTACAG**********TAAGTCTGGCTTGA
Mut ACACTGAGACTACAG***Deletion***TAAGTCTGGCTTGA
Allele-2: 73bp deletion in exon2

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