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PLA2R1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02115

Basic Information

Catalog No.
RM02115

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
PLA2R1

Species
Human

Gene ID
22925

Swiss Prot
Q13018

Synonyms
CLEC13C; PLA2-R; PLA2G1R; PLA2IR; PLA2R

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Background

This gene represents a phospholipase A2 receptor. The encoded protein likely exists as both a transmembrane form and a soluble form. The transmembrane receptor may play a role in clearance of phospholipase A2, thereby inhibiting its action. Polymorphisms at this locus have been associated with susceptibility to idiopathic membranous nephropathy. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Sep 2010]

Product Information

Description
PLA2R1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:71bp 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 TAAATCGGTTCTGA**********ATAGGAGGCAGTGG
Mut TAAATCGGTTCTGA***Deletion***ATAGGAGGCAGTGG
Allele-1: 71bp deletion in exon2

WT TAAATCGGTTCTGA**********AGGAGGCAGTGGTT
Mut TAAATCGGTTCTGA***Deletion***AGGAGGCAGTGGTT
Allele-2: 73bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PLA2R1 knockout (KO) HeLa cells, using sanger sequencing.

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