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ARHGDIA Knockout 293T Cell Line, Homozygous

Catalog No.: RM02227

Basic Information

Catalog No.
RM02227

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a protein that plays a key role in the regulation of signaling through Rho GTPases. The encoded protein inhibits the disassociation of Rho family members from GDP (guanine diphosphate), thereby maintaining these factors in an inactive state. Activity of this protein is important in a variety of cellular processes, and expression of this gene may be altered in tumors. Mutations in this gene have been found in individuals with nephrotic syndrome, type 8. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Gene Information

Gene Symbol
ARHGDIA

Species
Human

Gene ID
396

Swiss Prot
P52565

Synonyms
GDIA1; HEL-S-47e; NPHS8; RHOGDI; RHOGDI-1

Product Information

Description
ARHGDIA Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:91bp deletion in exon1
Allele-2:91bp 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
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

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     TGCAGCGGAGAACG**************AAAGTACAAGGAGG
Mut    TGCAGCGGAGAACG***Deletion***AAAGTACAAGGAGG
Allele-1：91bp deletion in exon1

WT     TGCAGCGGAGAACG**************AAAGTACAAGGAGG
Mut    TGCAGCGGAGAACG***Deletion***AAAGTACAAGGAGG
Allele-2：91bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and ARHGDIA knockout (KO) 293T cells, using sanger sequencing.