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RHOC Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02239

Basic Information

Catalog No.
RM02239

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
RHOC

Species
Human

Gene ID
389

Swiss Prot
P08134

Synonyms
ARH9; ARHC; H9; RHOH9

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Background

This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. The protein encoded by this gene is prenylated at its C-terminus, and localizes to the cytoplasm and plasma membrane. It is thought to be important in cell locomotion. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

Product Information

Description
RHOC Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:70bp deletion in exon1
Allele-2:70bp 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     AAGACCTGCCTCCT**************ATTGAGGTGGACGG
Mut    AAGACCTGCCTCCT***Deletion***ATTGAGGTGGACGG
Allele-1：70bp deletion in exon1

WT     AAGACCTGCCTCCT**************ATTGAGGTGGACGG
Mut    AAGACCTGCCTCCT***Deletion***ATTGAGGTGGACGG
Allele-2：70bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and RHOC knockout (KO) HeLa cells, using sanger sequencing.