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RHOC Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02386

Basic Information

Catalog No.
RM02386

Category
Cell Lysate

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 HeLa 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 Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

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.