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RIPK3 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01946

Basic Information

Catalog No.
RM01946

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
RIPK3

Species
Human

Gene ID
11035

Swiss Prot
Q9Y572

Synonyms
RIP3

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Background

The product of this gene is a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases, and contains a C-terminal domain unique from other RIP family members. The encoded protein is predominantly localized to the cytoplasm, and can undergo nucleocytoplasmic shuttling dependent on novel nuclear localization and export signals. It is a component of the tumor necrosis factor (TNF) receptor-I signaling complex, and can induce apoptosis and weakly activate the NF-kappaB transcription factor. [provided by RefSeq, Jul 2008]

Product Information

Description
RIPK3 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:65bp deletion in exon2
Allele-2:65bp 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 CCCCTTGGTGTCCA**********CATAGGAAGTGGGG
Mut CCCCTTGGTGTCCA***Deletion***CATAGGAAGTGGGG
Allele-1：65bp deletion in exon2

WT CCCCTTGGTGTCCA**********CATAGGAAGTGGGG
Mut CCCCTTGGTGTCCA***Deletion***CATAGGAAGTGGGG
Allele-2：65bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and RIPK3 knockout (KO) HeLa cells, using sanger sequencing.

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