

CSPG4 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02229

Basic Information

Catalog No.

RM02229

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

CSPG4

Species

Human

Gene ID

1464

Swiss Prot

Q6UVK1

Synonyms

HMW-MAA; MCSP; MCSPG; MEL-CSPG; MSK16; NG2

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Background

A human melanoma-associated chondroitin sulfate proteoglycan plays a role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. CSPG4 represents an integral membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells. [provided by RefSeq, Jul 2008]

Product Information

Description

CSPG4 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:121bp deletion in exon3

Allele-2:121bp deletion in exon3

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

1~5x10⁶ cells/vial

Storage

Stored in liquid nitrogen for a long time less than -130°C. 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°C with 5% CO₂ condition.

1. Thaw the vial in 37°C 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°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT CCACGTTGTCAGTC*****TGAGGGGTTGCCTC
Mut CCACGTTGTCAGTC***Deletion***TGAGGGGTTGCCTC
Allele-1: 121bp deletion in exon3

WT CCACGTTGTCAGTC*****TGAGGGGTTGCCTC
Mut CCACGTTGTCAGTC***Deletion***TGAGGGGTTGCCTC
Allele-2: 121bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and CSPG4 knockout (KO) HeLa cells, using sanger sequencing.