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# CSPG4 Knockout HeLa Cell Line, Homozygous

**Catalog No.: RM02229**

## Basic Information

**Catalog No.**
RM02229

**Category**
Cell Line

**Parental Cell line**
HeLa

**Genotype**
Knockout

## 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]

## Gene Information

**Gene Symbol**
CSPG4

**Species**
Human

**Gene ID**
1464

**Swiss Prot**
Q6UVK1

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

## 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**
1~5x$10^6$ 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.

## Contact


400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

## 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.



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