

SPECC1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02763

Basic Information

Catalog No.

RM02763

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

SPECC1

Species

Human

Gene ID

92521

Swiss Prot

Q5M775

Synonyms

NSP; NSP5; CYTSB; HCMOGT1;
HCMOGT-1

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Background

The protein encoded by this gene belongs to the cytospin-A family. It is localized in the nucleus, and highly expressed in testis and some cancer cell lines. A chromosomal translocation involving this gene and platelet-derived growth factor receptor, beta gene (PDGFRB) may be a cause of juvenile myelomonocytic leukemia. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Product Information

Description

SPECC1 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:116bp deletion in exon1

Allele-2:116bp 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

1~5x10⁶ 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 TGAGGGGACTGATG*****GAAAACCGGGTCCT
Mut TGAGGGGACTGATG***Deletion***GAAAACCGGGTCCT
Allele-1: 116bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and SPECC1 knockout (KO) HeLa cells, using sanger sequencing.

WT TGAGGGGACTGATG*****GAAAACCGGGTCCT
Mut TGAGGGGACTGATG***Deletion***GAAAACCGGGTCCT
Allele-2: 116bp deletion in exon2