Leader in Biomolecular Solutions for Life Science

www.abclonal.com

SPECC1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02763

Basic Information

Catalog No.
RM02763

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

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.

Gene Information

Gene Symbol
SPECC1

Species
Human

Gene ID
92521

Swiss Prot
Q5M775

Synonyms
NSP; NSP5; CYTSB; HCMOGT1; HCMOGT-1

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
1~5x10^6 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.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Sequencing data

```
WT    TGAGGGGACTGATG**********GAAAACCGGGTCCT
Mut   TGAGGGGACTGATG***Deletion***GAAAACCGGGTCCT
Allele-1:   116bp deletion in exon2

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

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