

SMARCB1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02409

Basic Information

Catalog No.

RM02409

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

SMARCB1

Species

Human

Gene ID

6598

Swiss Prot

Q12824

Synonyms

BAF47; CSS3; INI1; MRD15; PPP1R144; RDT; RTPS1; SNF5; SNF5L1; SWNTS1; Sfh1p; Snr1; hSNFS

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Background

The protein encoded by this gene is part of a complex that relieves repressive chromatin structures, allowing the transcriptional machinery to access its targets more effectively. The encoded nuclear protein may also bind to and enhance the DNA joining activity of HIV-1 integrase. This gene has been found to be a tumor suppressor, and mutations in it have been associated with malignant rhabdoid tumors. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2015]

Product Information

Description

SMARCB1 Knockout HeLa Cell Line knockout is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:56bp deletion in exon2

Allele-2:77bp 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

1~5x10⁶ 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 GGAAACTACCTCCG*****CTGTGGAAGAGAGG
Mut GGAAACTACCTCCG***Deletion***CTGTGGAAGAGAGG
Allele-1: 56bp deletion in exon2
WT TAGGTGGGAAACTA*****AGAAAATAGTTGCA
Mut TAGGTGGGAAACTA***Deletion***AGAAAATAGTTGCA
Allele-2: 77bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and SMARCB1 knockout (KO) HeLa cells, using sanger sequencing.