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SMARCB1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02409

Basic Information

Catalog No.
RM02409

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

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]

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

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
1~5x10^6 cells/vial

Storage
Stored in liquid nitrogen for a long time less than -130℃. 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℃ 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

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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.