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BRD4 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02204

Basic Information

Catalog No.
RM02204

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

The protein encoded by this gene is homologous to the murine protein MCAP, which associates with chromosomes during mitosis, and to the human RING3 protein, a serine/threonine kinase. Each of these proteins contains two bromodomains, a conserved sequence motif which may be involved in chromatin targeting. This gene has been implicated as the chromosome 19 target of translocation t(15;19)(q13;p13.1), which defines an upper respiratory tract carcinoma in young people. Two alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
BRD4

Species
Human

Gene ID
23476

Swiss Prot
O60885

Synonyms
CAP; HUNK1; HUNKI; MCAP

Product Information

Description
BRD4 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:73bp deletion in exon1
Allele-2:73bp 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

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Sequencing data

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WT     AGACCAACCAACTG**************ATGCCGTCAAGCTG
Mut    AGACCAACCAACTG***Deletion***ATGCCGTCAAGCTG
Allele-1：73bp deletion in exon1

WT     AGACCAACCAACTG**************ATGCCGTCAAGCTG
Mut    AGACCAACCAACTG***Deletion***ATGCCGTCAAGCTG
Allele-2：73bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and BRD4 knockout (KO) HeLa cells, using sanger sequencing.