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CCNB1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02086

Basic Information

Catalog No.
RM02086

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
CCNB1

Species
Human

Gene ID
891

Swiss Prot
P14635

Synonyms
CCNB

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Background

The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product complexes with p34(cdc2) to form the maturation-promoting factor (MPF). Two alternative transcripts have been found, a constitutively expressed transcript and a cell cycle-regulated transcript, that is expressed predominantly during G2/M phase. The different transcripts result from the use of alternate transcription initiation sites. [provided by RefSeq, Jul 2008]

Product Information

Description
CCNB1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:68bp deletion in exon3
Allele-2:68bp deletion in exon3
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.

Sequencing data

WT ACCAAAACCTCTTG**********CCTGAGCCTGTTAA
Mut ACCAAAACCTCTTG***Deletion***CCTGAGCCTGTTAA
Allele-1：68bp deletion in exon3

WT ACCAAAACCTCTTG**********CCTGAGCCTGTTAA
Mut ACCAAAACCTCTTG***Deletion***CCTGAGCCTGTTAA
Allele-2：68bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and CCNB1 knockout (KO) HeLa cells, using sanger sequencing.

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