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CETN2 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02130

Basic Information

Catalog No.
RM02130

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

Caltractin belongs to a family of calcium-binding proteins and is a structural component of the centrosome. The high level of conservation from algae to humans and its association with the centrosome suggested that caltractin plays a fundamental role in the structure and function of the microtubule-organizing center, possibly required for the proper duplication and segregation of the centrosome. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
CETN2

Species
Human

Gene ID
1069

Swiss Prot
P41208

Synonyms
CALT; CEN2

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

Description
CETN2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:80bp deletion in exon1
Allele-2:80bp 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
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.

Sequencing data

WT AGAATGAGCCCTAA**********ATGTTAAAGAACTG
Mut AGAATGAGCCCTAA***Deletion***ATGTTAAAGAACTG
Allele-1: 80bp deletion in exon1

WT AGAATGAGCCCTAA**********ATGTTAAAGAACTG
Mut AGAATGAGCCCTAA***Deletion***ATGTTAAAGAACTG
Allele-2: 80bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and CETN2 knockout (KO) HeLa cells, using sanger sequencing.