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CDKL4 Knockout NIH/3T3 Cell Line, Homozygous

Catalog No.: RM50126

Basic Information

Catalog No.
RM50126

Category
Cell Line

Parental Cell line
NIH/3T3

Genotype
Knockout

Gene Information

Gene Symbol
CDKL4

Species
Mouse

Gene ID
381113

Swiss Prot
Q3TZA2

Synonyms
Gm942; Cdkl4

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Background

Predicted to enable cyclin-dependent protein serine/threonine kinase activity. Predicted to be involved in protein phosphorylation. Predicted to act upstream of or within phosphorylation. Predicted to be located in cytoplasm. Predicted to be active in nucleus. Is expressed in several structures, including alimentary system; central nervous system; reproductive system; respiratory system; and skeleton. Orthologous to human CDKL4 (cyclin dependent kinase like 4).

Product Information

Description
CDKL4 Knockout cell line is engineered from NIH/3T3 cell line with Gene-Editing Technology.
Allele-1:61bp deletion in exon3
Allele-2:2bp 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

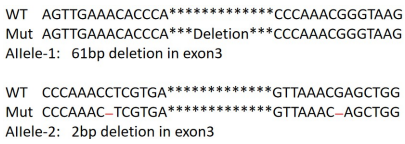
Amount
1~5x10^6 cells/vial.

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



Genome sequence analysis of PCR products from parental (WT) and CDKL4 knockout (KO) NIH/3T3 cells, using sanger sequencing.