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DPYSL2 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02242

Basic Information

Catalog No.
RM02242

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
DPYSL2

Species
Human

Gene ID
1808

Swiss Prot
Q16555

Synonyms
CRMP-2; CRMP2; DHPRP2; DRP-2; DRP2; N2A3; ULIP-2; ULIP2

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Background

This gene encodes a member of the collapsin response mediator protein family. Collapsin response mediator proteins form homo- and hetero-tetramers and facilitate neuron guidance, growth and polarity. The encoded protein promotes microtubule assembly and is required for Sema3A-mediated growth cone collapse, and also plays a role in synaptic signaling through interactions with calcium channels. This gene has been implicated in multiple neurological disorders, and hyperphosphorylation of the encoded protein may play a key role in the development of Alzheimer's disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

Product Information

Description
DPYSL2 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:53bp deletion in exon2
Allele-2:53bp 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.

Sequencing data

WT CGAGGCCCACTCCC**********CAGGGAATGACGTC
Mut CGAGGCCCACTCCC***Deletion***CAGGGAATGACGTC
Allele-1: 53bp deletion in exon2

WT CGAGGCCCACTCCC**********CAGGGAATGACGTC
Mut CGAGGCCCACTCCC***Deletion***CAGGGAATGACGTC
Allele-2: 53bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and DPYSL2 knockout (KO) HeLa cells, using sanger sequencing.

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