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DPYSL2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02389

Basic Information

Catalog No.
RM02389

Category
Cell Lysate

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 HeLa 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 Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

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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