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INPP5E Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02799

Basic Information

Catalog No.
RM02799

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene is an inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase. InsP3 5-phosphatases hydrolyze Ins(1,4,5)P3, which mobilizes intracellular calcium and acts as a second messenger mediating cell responses to various stimulation. Studies of the mouse counterpart suggest that this protein may hydrolyze phosphatidylinositol 3,4,5-trisphosphate and phosphatidylinositol 3,5-bisphosphate on the cytoplasmic Golgi membrane and thereby regulate Golgi-vesicular trafficking. Mutations in this gene cause Joubert syndrome; a clinically and genetically heterogenous group of disorders characterized by midbrain-hindbrain malformation and various associated ciliopathies that include retinal dystrophy, nephronophthisis, liver fibrosis and polydactyly. Alternative splicing results in multiple transcript variants encoding different isoforms.

Gene Information

Gene Symbol
INPP5E

Species
Human

Gene ID
56623

Swiss Prot
Q9NRR6

Synonyms
CPD4; CORS1; JBTS1; MORMS; PPI5PIV; pharbin; INPP5E

Product Information

Description
INPP5E Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:113bp deletion in exon1
Allele-2:113bp 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 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.

Contact

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Sequencing data

```
WT    CCCCACCCGATGCT**********GGAGCGAGCCCTGT
Mut   CCCCACCCGATGCT***Deletion***GGAGCGAGCCCTGT
Allele-1:   113bp deletion in exon1

WT    CCCCACCCGATGCT**********GGAGCGAGCCCTGT
Mut   CCCCACCCGATGCT***Deletion***GGAGCGAGCCCTGT
Allele-2:   113bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and INPP5E knockout (KO) 293T cells, using sanger sequencing.

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