

INPP5E Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02799

Basic Information

Catalog No.

RM02799

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

INPP5E

Species

Human

Gene ID

56623

Swiss Prot

Q9NRR6

Synonyms

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

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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 heterogeneous 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.

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°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

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 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

Genome sequence analysis of PCR products from parental (WT) and INPP5E knockout (KO) 293T cells, using sanger sequencing.