

PPP2CA Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02264

Basic Information

Catalog No.

RM02264

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

PPP2CA

Species

Human

Gene ID

5515

Swiss Prot

P67775

Synonyms

PP2Ac; PP2CA; PP2Calpha; RP-C

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Background

This gene encodes the phosphatase 2A catalytic subunit. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. This gene encodes an alpha isoform of the catalytic subunit. [provided by RefSeq, Jul 2008]

Product Information

Description

PPP2CA Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:130bp deletion in exon2

Allele-2:130bp 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°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 AAAAGAATCCAACG*****CAGAGGATATTATT
Mut AAAAGAATCCAACG***Deletion***CAGAGGATATTATT
Allele-1: 130bp deletion in exon2
WT AAAAGAATCCAACG*****CAGAGGATATTATT
Mut AAAAGAATCCAACG***Deletion***CAGAGGATATTATT
Allele-2: 130bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PPP2CA Knockout (KO) 293T cells, using sanger sequencing.