

PIK3R3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02588

Basic Information

Catalog No.

RM02588

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

PIK3R3

Species

Human

Gene ID

8503

Swiss Prot

Q92569

Synonyms

p55; p55-GAMMA; p55PIK

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Background

Phosphatidylinositol 3-kinase (PI3K) phosphorylates phosphatidylinositol and similar compounds, which then serve as second messengers in growth signaling pathways. PI3K is composed of a catalytic and a regulatory subunit. The protein encoded by this gene represents a regulatory subunit of PI3K. The encoded protein contains two SH2 domains through which it binds activated protein tyrosine kinases to regulate their activity. [provided by RefSeq, Jun 2016]

Product Information

Description

PIK3R3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:32bp deletion in exon2

Allele-2:20bp 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 ACCT*****CAAA*ATGG*****ATAT
Mut ACCT***Deletion***CAAA*ATGG***Deletion***ATAT
Allele-1: 32bp deletion in exon2

WT ACCT*****GCAG*GCAG*****TACT
Mut ACCT***Deletion***GCAG*GCAG***Deletion***TACT
Allele-2: 20bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PIK3R3 knockout (KO) 293T cells, using sanger sequencing.