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PIK3R3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02588

Basic Information

Catalog No.
RM02588

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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]

Gene Information

Gene Symbol
PIK3R3

Species
Human

Gene ID
8503

Swiss Prot
Q92569

Synonyms
p55; p55-GAMMA; p55PIK

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℃

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

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