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CDKN3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50102

Basic Information

Catalog No.
RM50102

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
CDKN3

Species
Human

Gene ID
1033

Swiss Prot
Q16667

Synonyms
KAP; CDI1; CIP2; KAP1; CDKN3

Contact

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Background

The protein encoded by this gene belongs to the dual specificity protein phosphatase family. It was identified as a cyclin-dependent kinase inhibitor, and has been shown to interact with, and dephosphorylate CDK2 kinase, thus prevent the activation of CDK2 kinase. This gene was reported to be deleted, mutated, or overexpressed in several kinds of cancers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Product Information

Description
CDKN3 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon4 was deleted
Allele-2:exon4 was deleted
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
Lysate is stable for 12 months when stored at -20℃. 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    CTGTGTATCCTGGT*************GCAGATGGAGGGAC
Mut   CTGTGTATCCTGGT***Deletion***GCAGATGGAGGGAC
Allele-1:    exon4 was deleted

WT    CTGTGTATCCTGGT*************GCAGATGGAGGGAC
Mut   CTGTGTATCCTGGT***Deletion***GCAGATGGAGGGAC
Allele-2:    exon4 was deleted
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Genome sequence analysis of PCR products from parental (WT) and CDKN3 knockout (KO) 293T cells, using sanger sequencing.

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