

CDK4 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01799

Basic Information

Catalog No.

RM01799

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

CDK4

Species

Human

Gene ID

1019

Swiss Prot

P11802

Synonyms

CMM3; PSK-J3

Contact

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Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of *S. cerevisiae* cdc28 and *S. pombe* cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported. [provided by RefSeq, Jul 2008]

Product Information

Description

CDK4 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:115bp deletion in exon1

Allele-2:116bp 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 TTGGTGTGCGTGCC*****GTGAGGTGGCTTTA
Mut TTGGTGTGCGTGCC***Deletion***GTGAGGTGGCTTTA
Allele-1: 115bp deletion in exon1

WT ATTGGTGTGCGTGC*****GTGAGGTGGCTTTA
Mut ATTGGTGTGCGTGC***Deletion***GTGAGGTGGCTTTA
Allele-2: 116bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and CDK4 knockout (KO) HeLa cells, using sanger sequencing.