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CDK6 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01857

Basic Information

Catalog No.
RM01857

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
CDK6

Species
Human

Gene ID
1021

Swiss Prot
Q00534

Synonyms
MCPH12; PLSTIRE

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Background

The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of Saccharomyces cerevisiae cdc28, and Schizosaccharomyces pombe cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. Expression of this gene is up-regulated in some types of cancer. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2009]

Product Information

Description
CDK6 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:exon2 was deleted
Allele-2:exon2 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
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.

Sequencing data

```
WT     ATATGTATAAAACA**************ATCAGGCAGTCGAC
Mut    ATATGTATAAAACA***Deletion***ATCAGGCAGTCGAC
Allele-1：exon2 was deleted

WT     ATATGTATAAAACA**************ATCAGGCAGTCGAC
Mut    ATATGTATAAAACA***Deletion***ATCAGGCAGTCGAC
Allele-2：exon2 was deleted
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Genome sequence analysis of PCR products from parental (WT) and CDK6 knockout (KO) HeLa cells, using sanger sequencing.