

CCND3 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02366

Basic Information

Catalog No.

RM02366

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

CCND3

Species

Human

Gene ID

896

Swiss Prot

P30281

Contact

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Background

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

Product Information

Description

CCND3 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:86bp deletion in exon2

Allele-2:86bp 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 GGAGGTGCTGGTCC*****CGACAGGCCTTGGT
Mut GGAGGTGCTGGTCC***Deletion***CGACAGGCCTTGGT
Allele-1: 86bp deletion in exon2
WT GGAGGTGCTGGTCC*****CGACAGGCCTTGGT
Mut GGAGGTGCTGGTCC***Deletion***CGACAGGCCTTGGT
Allele-2: 86bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and CCND3 knockout (KO) HeLa cells, using sanger sequencing.