

CDKN1B Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02010

Basic Information

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Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

CDKN1B

Species

Human

Gene ID

1027

Swiss Prot

P46527

Synonyms

CDKN4; KIP1; MEN1B; MEN4; P27KIP1

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Background

This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Mutations in this gene are associated with multiple endocrine neoplasia type IV (MEN4). [provided by RefSeq, Apr 2014]

Product Information

Description

CDKN1B Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:187bp deletion in exon1

Allele-2:319bp 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 GGCCCGGTGGACCA*****GCGGAGCAATGCG
Mut GGCCCGGTGGACCA***Deletion***GCGGAGCAATGCG
Allele-1: 319bp deletion in exon1

WT GGCCCGGTGGACCA*****CGGCGCAGGAGA
Mut GGCCCGGTGGACCA***Deletion***CGGCGCAGGAGA
Allele-2: 190bp deletion in exon1

WT TAACGGGAG*****TTAACCG***CAG ACGGGG
Mut TAACGGGAG*Deletion*TTAACCG***CAGGACGGGG
Allele-3: 91bp deletion and 1bp Insertion in exon1

WT GGAG*****TTA***CAG ACGGG GTTA
Mut GGAG*Deletion*TTA***CAGGACGGG*Insertion*GTTA
Allele-4: 91bp deletion and 58bp Insertion in exon1

Genome sequence analysis of PCR products from parental (WT) and CDKN1B Knockdown (KD) HeLa cells, using sanger sequencing.