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CDKN1B Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02010

Basic Information

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RM02010

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

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]

Gene Information

Gene Symbol
CDKN1B

Species
Human

Gene ID
1027

Swiss Prot
P46527

Synonyms
CDKN4; KIP1; MEN1B; MEN4; P27KIP1

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℃

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.

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Sequencing data



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