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CDK8 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02399

Basic Information

Catalog No.
RM02399

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are known to be important regulators of cell cycle progression. This kinase and its regulatory subunit, cyclin C, are components of the Mediator transcriptional regulatory complex, involved in both transcriptional activation and repression by phosphorylation of the carboxy-terminal domain of the largest subunit of RNA polymerase II. This kinase regulates transcription by targeting the cyclin-dependent kinase 7 subunits of the general transcription initiation factor IIH, thus providing a link between the Mediator complex and the basal transcription machinery. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]

Gene Information

Gene Symbol
CDK8

Species
Human

Gene ID
1024

Swiss Prot
P49336

Synonyms
K35

Product Information

Description
CDK8 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:49bp deletion in exon1
Allele-2:49bp 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.

Contact

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Sequencing data

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WT     GGACCTGTTTGAAT**************CAAGAGGAAAGATG
Mut    GGACCTGTTTGAAT***Deletion***CAAGAGGAAAGATG
Allele-1：49bp deletion  in exon1

WT     GGACCTGTTTGAAT**************CAAGAGGAAAGATG
Mut    GGACCTGTTTGAAT***Deletion***CAAGAGGAAAGATG
Allele-2：49bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and CDK8 knockout (KO) 293T cells, using sanger sequencing.

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