

PRKDC Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM50107

Basic Information

Catalog No.

RM50107

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockdown

Gene Information

Gene Symbol

PRKDC

Species

Human

Gene ID

5591

Swiss Prot

P78527

Synonyms

HYRC; p350; DNAPK; DNPk1; HYRC1;
IMD26; XRCC7; DNAPKc; DNA-PKC; DNA-
PKcs

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Background

This gene encodes the catalytic subunit of the DNA-dependent protein kinase (DNA-PK). It functions with the Ku70/Ku80 heterodimer protein in DNA double strand break repair and recombination. The protein encoded is a member of the PI3/PI4-kinase family.

Product Information

Description

PRKDC Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:18bp deletion in exon1

Allele-2:32bp 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 AACTGATCCGCG*****TCCTGAGCAGCA
Mut AACTGATCCGCG*****Deletion*****TCCTGAGCAGCA
Allele-1: 18bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and PRKnockdownC knockdown (KD) 293T cells, using sanger sequencing.

WT GCTGCGGTGCTG*****GGGCAGGAATGC
Mut GCTGCGGTGCTG*****Deletion*****GGGCAGGAATGC
Allele-2: 32bp deletion in exon1