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DNMT1 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM01774

Basic Information

Catalog No.
RM01774

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
DNMT1

Species
Human

Gene ID
1786

Swiss Prot
P26358

Synonyms
ADCADN; AIM; CXXC9; DNMT; HSN1E; MCMT; m.HsaI

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Background

This gene encodes an enzyme that transfers methyl groups to cytosine nucleotides of genomic DNA. This protein is the major enzyme responsible for maintaining methylation patterns following DNA replication and shows a preference for hemi-methylated DNA. Methylation of DNA is an important component of mammalian epigenetic gene regulation. Aberrant methylation patterns are found in human tumors and associated with developmental abnormalities. Variation in this gene has been associated with cerebellar ataxia, deafness, and narcolepsy, and neuropathy, hereditary sensory, type IE. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Product Information

Description
DNMT1 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:50bp deletion in exon4
Allele-2:54bp deletion in exon4
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.

Sequencing data

WT CTTACAACCGGGAA**********AGTGGGAATGGCAG
Mut CTTACAACCGGGAA***Deletion***AGTGGGAATGGCAG
Allele-1: 50bp deletion in exon4

WT CATGCTTACAACCG**********AGTGGGAATGGCAG
Mut CATGCTTACAACCG***Deletion***AGTGGGAATGGCAG
Allele-2: 54bp deletion in exon4

Genome sequence analysis of PCR products from parental (WT) and DNMT1 Knockdown (KD) 293T cells, using sanger sequencing.

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