

DNMT3A Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01992

Basic Information

Catalog No.

RM01992

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

DNMT3A

Species

Human

Gene ID

1788

Swiss Prot

Q9Y6K1

Synonyms

DNMT3A2; M.Hsa111A; TBRS

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Background

CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. [provided by RefSeq, Mar 2016]

Product Information

Description

DNMT3A Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:56bp deletion in exon3

Allele-2:56bp deletion in exon3

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 CAAAGGACCTGCG*****CAATGGGGACTTGG
Mut CAAAGGACCTGCG***Deletion***CAATGGGGACTTGG
Allele-1: 56bp deletion in exon3
WT CAAAGGACCTGCG*****CAATGGGGACTTGG
Mut CAAAGGACCTGCG***Deletion***CAATGGGGACTTGG
Allele-2: 56bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and DNMT3A knockout (KO) 293T cells, using sanger sequencing.