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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.HsaIIIA; TBRS

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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℃

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

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

WT    CAAAGGACCCTGCG**************CAATGGGGACTTGG
Mut   CAAAGGACCCTGCG***Deletion***CAATGGGGACTTGG
Allele-2：56bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and DNMT3A knockout (KO) 293T cells, using sanger sequencing.