Leader in Biomolecular Solutions for Life Science

www.abclonal.com

DNMT3B Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02032

Basic Information

Catalog No.
RM02032

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
DNMT3B

Species
Human

Gene ID
1789

Swiss Prot
Q9UBC3

Synonyms
ICF; ICF1; M.HsaIIIB

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 which is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Eight alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined. [provided by RefSeq, May 2011]

Product Information

Description
DNMT3B Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:106bp deletion in exon3
Allele-2:106bp 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

WT GGGCAACAGCATCG**********CCCGCCTAGCCCAG
Mut GGGCAACAGCATCG***Deletion***CCCGCCTAGCCCAG
Allele-1: 106bp deletion in exon3

WT GGGCAACAGCATCG**********CCCGCCTAGCCCAG
Mut GGGCAACAGCATCG***Deletion***CCCGCCTAGCCCAG
Allele-2: 106bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and DNMT3B knockout (KO) 293T cells, using sanger sequencing.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.