

DNMT3B polyclonal antibody
Purified Rabbit Polyclonal Antibody
Catalog # ADN10134

Specification

DNMT3B polyclonal antibody - Product Information

Application **E, WB, IF**
Primary Accession [Q9UBC3](#)
Reactivity **Human**
Host **Rabbit**
Clonality **Polyclonal**
Calculated MW **95751**

DNMT3B polyclonal antibody - Additional Information

Gene ID 1789

Other Names

DNA (cytosine-5)-methyltransferase 3B,
Dnmt3b, 2.1.1.37, DNA methyltransferase
HsallIB, DNA MTase HsallIB, M.HsallIB,
DNMT3B

Target/Specificity

DNMT3B

Precautions

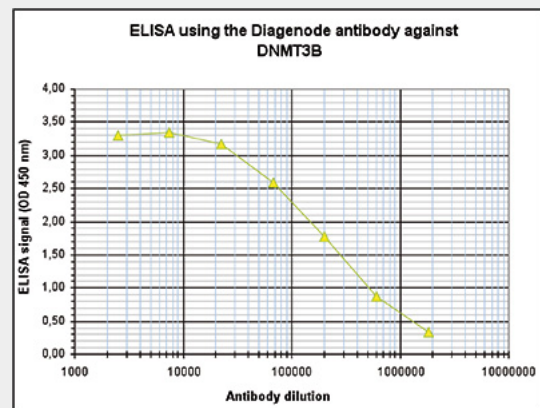
DNMT3B polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DNMT3B polyclonal antibody - Protein Information

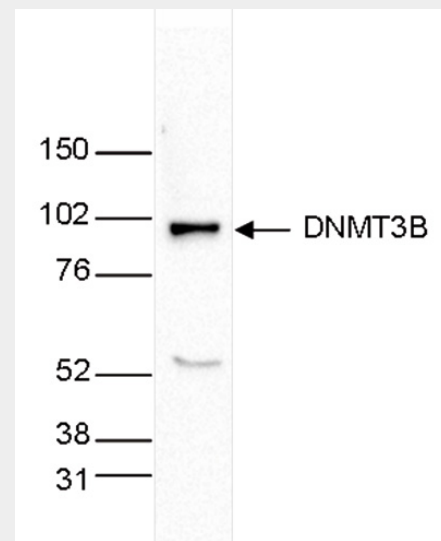
Name DNMT3B

Function

Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development. DNA methylation is coordinated with methylation of histones. May preferentially methylates nucleosomal DNA within the nucleosome core region. May function as transcriptional co-repressor by associating with CBX4 and independently of DNA methylation. Seems to be involved in gene silencing (By



Determination of the antibody titer



Western blot analysis using the antibody directed against DNMT3B



Immunofluorescence using the antibody directed against DNMT3B

DNMT3B polyclonal antibody - Background

Required for genome-wide de novo

similarity). In association with DNMT1 and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9. Isoforms 4 and 5 are probably not functional due to the deletion of two conserved methyltransferase motifs. Functions as a transcriptional corepressor by associating with ZHX1. Required for DUX4 silencing in somatic cells (PubMed:27153398).

Cellular Location

Nucleus

Tissue Location

Ubiquitous; highly expressed in fetal liver, heart, kidney, placenta, and at lower levels in spleen, colon, brain, liver, small intestine, lung, peripheral blood mononuclear cells, and skeletal muscle. Isoform 1 is expressed in all tissues except brain, skeletal muscle and PBMC, 3 is ubiquitous, 4 is expressed in all tissues except brain, skeletal muscle, lung and prostate and 5 is detectable only in testis and at very low level in brain and prostate

methylation and is essential for the establishment of DNA methylation patterns during development. DNA methylation is coordinated with methylation of histones. May preferentially methylates nucleosomal DNA within the nucleosome core region. May function as transcriptional co-repressor by associating with CBX4 and independently of DNA methylation. Seems to be involved in gene silencing (By similarity). In association with DNMT1 and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9. Isoforms 4 and 5 are probably not functional due to the deletion of two conserved methyltransferase motifs. Function as transcriptional corepressor by associating with ZHX1.

DNMT3B polyclonal antibody - References

Xie S.,et al.Gene 236:87-95(1999).
Xu G.-L.,et al.Nature 402:187-191(1999).
Ni J.,et al.Submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Deloukas P.,et al.Nature 414:865-871(2001).

DNMT3B polyclonal antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)