

# **DNMT3B Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51168

## **Specification**

## **DNMT3B Antibody - Product Information**

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

WB, ICC, IHC-P, E

O9UBC3

Human

Rabbit

Polyclonal

96 KDa

# **DNMT3B Antibody - Additional Information**

**Gene ID 1789** 

#### **Other Names**

DNA (cytosine-5)-methyltransferase 3B, Dnmt3b, DNA methyltransferase HsallIB, DNA MTase HsallIB, MHsallIB, DNMT3B

#### **Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

### Storage

Store at -20 °C. Stable for 12 months from date of receipt

# **DNMT3B 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 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:<a href="http://www.uniprot.org/citations/27153398">https://www.uniprot.org/citations/27153398</a> target="\_blank">27153398</a>.

# **Cellular Location**

**Nucleus** 

### **Tissue Location**

Ubiquitous; highly expressed in fetal liver, heart, kidney, placenta, and at lower levels in spleen,



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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

# **DNMT3B 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 Cytomety
- Cell Culture

# **DNMT3B Antibody - Images**

# **DNMT3B Antibody - Background**

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# **DNMT3B 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).