

Product datasheet for AP01182PU-M

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OriGene Technologies, Inc.

DNMT3B Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western Blot: 1/500 - 1/1000.

Immunohistochemistry on paraffin sections: 1/50 - 1/200.

Reactivity: Human

Host: Rabbit

Clonality: Polyclonal

Immunogen: Synthetic peptide, corresponding to the N-terminual of Human DNMT3B.

Specificity: This antibody detects endogenous levels of Dnmt3b protein. (region surrounding His7)

Formulation: Phosphate buffered saline (PBS), pH~7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).

Preservative: 0.05% Sodium Azide

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen.

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: One year from despatch.

Predicted Protein Size: ~ 110 kDa

Gene Name: DNA (cytosine-5-)-methyltransferase 3 beta

Database Link: Entrez Gene 1789 Human

Q9UBC3





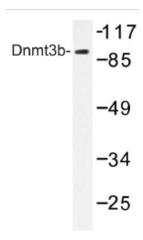
Background:

Methylation at the 5'-position of cytosine is the only known naturally occurring covalent modification of the mammalian genome. DNA methylation requires the enzymatic activity of DNA 5-cytosine methyltransferase (Dnmt) proteins, which catalyze the transfer of a methyl group from S-adenosyl methionine to the 5'-position of cytosines residing in the dinucleotide CpG motif, and this methylation results in transcriptional repression of the target gene. The Dnmt enzymes are encoded by independent genes. Dnmt1 is the most abundant, and it preferentially methylates hemimethylated DNA and coordinates gene expression during development. Additional mammalian Dnmt proteins include Dnmt2 and Dnmt3. Dnmt2 lacks the large N-terminal regulator domain of Dnmt1, is expressed at substantially lower levels in adult tissues, and is likely involved in methylating newly integrated retroviral DNA. Dnmt3a and Dnmt3b are encoded by two distinct genes, but both are abundantly expressed in embryonic stem cells, where they also methylate CpG motifs on DNA.

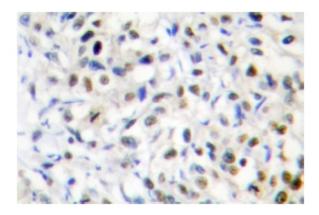
Synonyms:

DNA MTase HsalliB, M.HsalliB

Product images:



Western blot (WB) analysis of Dnmt3b antibody in extracts from HT-29 cells.



Immunohistochemistry (IHC) analyses of Dnmt3b antibody in Paraffin-Embedded Human liver carcinoma tissue.