

Product Datasheet

Dnmt3b Antibody



Catalog No: CY5006

Reactivity: Human, Mouse, Rat

Isotype: Rabbit IgG

Applications: WB, ICC/IF

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Information

UniProt ID: Q9UBC3

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

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 96 kDa

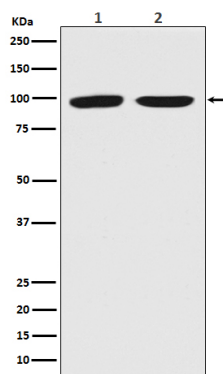
Application

WB: 1:500~1:2000

ICC/IF: 1:50~1:200

Background

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.



Western blot analysis of Dnmt3b expression in (1) A549 cell lysate; (2) A431 cell lysate.

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