

Anti-DNMT3B Antibody

Catalog Number: A00319

About DNMT3B

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. Function as transcriptional corepressor by associating with ZHX1.

Deloukas P., Nature 414:865-871(2001).

Li H., J. Biol. Chem. 281:19489-19500(2006).

Wijmenga C., Hum. Mutat. 16:509-517(2000).

Overview

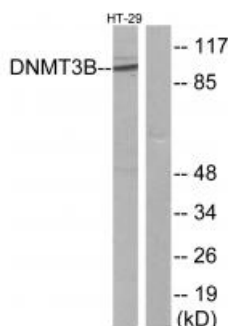
Product Name	Anti-DNMT3B Antibody
Reactive Species	Human
Description	Boster Bio Anti-DNMT3B Antibody (Catalog # A00319). Tested in WB, IHC, IF applications. This antibody reacts with Human.
Application	IF, IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9UBC3

Technical Details

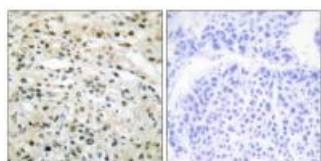
Immunogen	Synthesized peptide derived from N-terminal of human DNMT3B.
Predicted Reactive Species	Canine, Monkey
Isotype	IgG
Form	Liquid

Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blotting: 1:500~1:3000</p> <p>Immunohistochemistry: 1:50~1:100</p> <p>Immunofluorescence: 1:100~1:500</p>

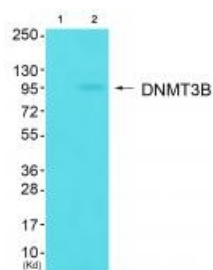
Anti-DNMT3B Antibody (A00319) Images



Western blot analysis of extracts from HT-29 cells, using DNMT3B antibody A00319.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue using DNMT3B antibody A00319.



Western blot analysis of extracts from HuvEc cells (Lane 2), using DNMT3B antibody A00319. The lane on the left is treated with synthesized peptide.



Immunofluorescence analysis of HeLa cells, using DNMT3B antibody A00319.

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