

Datasheet for ABIN727623
anti-DNMT3B antibody (AA 1-80)[2 Images](#)[2 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	DNMT3B
Binding Specificity:	AA 1-80
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DNMT3B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Dnmt3 Beta
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	DNMT3B
Alternative Name:	Dnmt3 Beta (DNMT3B Products)
Background:	Synonyms: ICF, ICF1, M.HsaIIIB, DNA (cytosine-5)-methyltransferase 3B, Dnmt3b, DNA

Target Details

methyltransferase HsaIIIB, DNA MTase HsaIIIB

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. Function as transcriptional corepressor by associating with ZHX1.

Gene ID: 1789

UniProt: [Q9UBC3](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

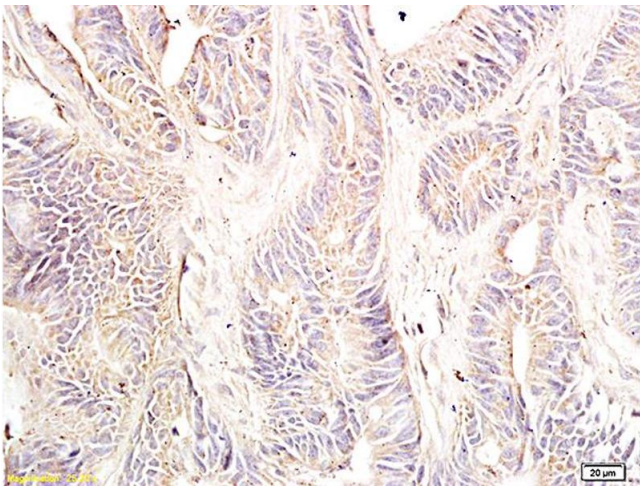
Expiry Date: 12 months

Publications

Product cited in: Wu, Bu, Yu, Li, Huang, Meng, Zhang, Ma, Li: "Methylation of Septin9 mediated by DNMT3a enhances hepatic stellate cells activation and liver fibrogenesis." in: **Toxicology and applied pharmacology**, Vol. 315, pp. 35-49, (2016) ([PubMed](#)).

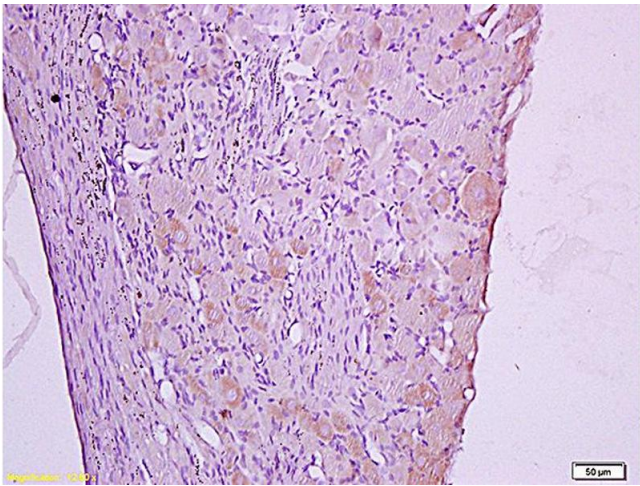
Zhao, Hou, Chen, Shao, Zhu, Bu, Gu, Li, Zhang, Du, Fu, Kong, Luo, Long, Li, Deng, Zhao, Cen: "Prenatal cocaine exposure impairs cognitive function of progeny via insulin growth factor II epigenetic regulation." in: **Neurobiology of disease**, Vol. 82, pp. 54-65, (2015) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded: human colon cancer tissue labeled with Anti-Dnmt-3-beta Polyclonal Antibody, Unconjugated (ABIN727623) at 1:600, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded: rat spinal cord tissue labeled with Anti-Dnmt-3-beta Polyclonal Antibody (ABIN727623), Unconjugated at 1:600, followed by conjugation to the secondary antibody and DAB staining