

Rabbit DNMT3B Polyclonal Antibody | anti-DNMT3B antibody

DNMT3B antibody - middle region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA199977	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish	Western Blot

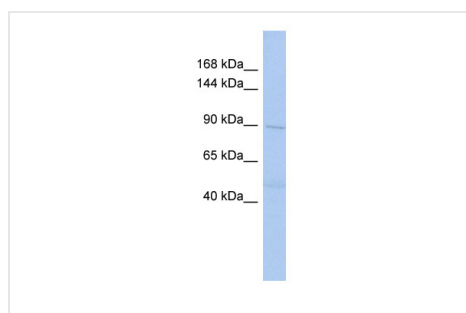
PRODUCT SYNONYMS

DNMT3B; Polyclonal Antibody; DNMT3B antibody - middle region; anti-DNMT3B antibody

PRODUCT SPECIFICATIONS

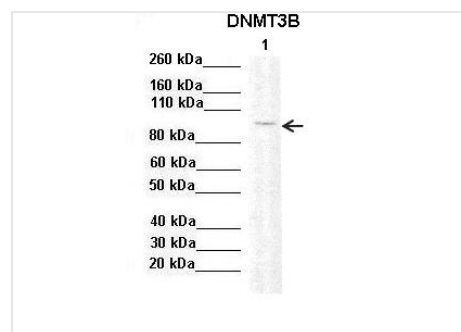
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: GT GRLFFEFYHL LNYSRPKEGD DRPFFWMFEN VVAMKVGDKR DISRFLEC
Sequence Length	770
Applicable Applications for anti-DNMT3B antibody	WB (Western Blot)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human DNMT3B
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

WB Suggested Anti-DNMT3B Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: OVCAR-3 cell lysate DNMT3B is supported by BioGPS gene expression data to be expressed in OVCAR3



WB (Western Blot)

Sample Type : Lane 1: 20ug mouse mesenchymal stem cell lysate Primary Antibody Dilution : 1:2000 Secondary Antibody: Anti-rabbit-HRP Secondary Antibody Dilution: 1:10,000 Color/Signal Descriptions: DNMT3B Gene Name: Anonymous Submitted by:

ADDITIONAL INFORMATION

Related Product Information for anti-DNMT3B antibody	This is a rabbit polyclonal antibody against DNMT3B. It was validated on Western Blot using a cell lysate as a positive control. Target Description: DNMT3B is 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. DNMT3B may preferentially methylate nucleosomal DNA within the nucleosome core region. DNMT3B may function as transcriptional co-repressor by associating with CBX4 and independently of DNA methylation. DNMT3B seems to be involved in gene silencing. In association with DNMT1 and via the recruitment of CTCFL/BORIS, DNMT3B is involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9. CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase which is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Six alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined.
Product Categories/Family for anti-DNMT3B antibody	Polyclonal; Transcription Regulation; Drugs and Drug Metabolism; Chromatin & Nuclear Signaling; Developmental Biology; Neuroscience; Stem Cells; Epigenetics; Disease Related; Methylation; Transcription Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	28559063
NCBI GeneID	1789
NCBI Accession #	NP_787045
NCBI GenBank Nucleotide #	NM_175849
UniProt Accession #	Q9UBC3
Molecular Weight	86kDa
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3B isoform 3
NCBI Official Synonym Full Names	DNA methyltransferase 3 beta
NCBI Official Symbol	DNMT3B
NCBI Official Synonym Symbols	ICF; ICF1; M.HsaIIIB
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3B
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3B
UniProt Gene Name	DNMT3B
UniProt Synonym Gene Names	Dnmt3b; DNA MTase HsaIIIB; M.HsaIIIB
UniProt Entry Name	DNM3B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.