

Mouse anti-Human DNMT3B Monoclonal Antibody | anti-DNMT3B antibody

Mouse monoclonal antibody Anti-Human DNMT3B

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36391	Mouse	Human	Flow Cytometry, Functional Assay, Western Blot, Immunocytochemistry, Dot Blot

PRODUCT SYNONYMS

DNMT3B; Monoclonal Antibody; Mouse monoclonal antibody Anti-Human DNMT3B; Homo sapiens DNA (cytosine-5-)-methyltransferase 3 beta (DNMT3B); transcript variant 2; mRNA; ICF; M.HsaIIIB; anti-DNMT3B antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	2280C3a
Concentration	100 ug/ml (1.0 ml) (varies by lot)
Sequence Length	4293
Applicable Applications for anti-DNMT3B antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ICC (Immunocytochemistry), DB (Dot Blot)
Preparation	This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.
Sterility	Filtered through a 0.22 um membrane.

IMAGES



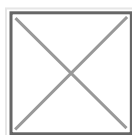
ICC (Immunocytochemistry)

Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti-DNMT3B mAb. [Lot No. 2280C3a-1]



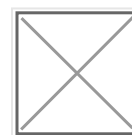
FCM/FACS (Flow Cytometry)

HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-DNMT3B mAb (shaded) or isotype control (unshaded) followed by Alexa Fluor(R) 488-conjugated goat anti-mouse IgG. [Lot No. 2280C3a-1]



WB (Western Blot)

Detection of DNMT3B by Western blot. Samples: Whole cell lysate from human HeLa (H, 50 ug), mouse NIH3T3 (M, 50 ug) and rat F2408 (R, 50 ug) cells. [Lot No. 2280C3a-1] Predicted molecular weight: 95 kDa



Quality Control #2

Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.



Quality Control

Western blot analysis of immunized recombinant protein, using anti-DNMT3B monoclonal antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-DNMT3B antibody	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. [NCBI Entrez Gene Summary]
References	DNMT3B gene amplification predicts resistance to DNA demethylating drugs . Laia Simó-Riudalbas, Sónia A. Melo, and Manel Esteller (2011)

NCBI AND UNIPROT INFORMATION

NCBI GI #	28559060
NCBI GeneID	1789
NCBI Accession #	NP_787044.1
NCBI GenBank Nucleotide #	NM_175848
Molecular Weight	81,311 Da
NCBI Official Full Name	Homo sapiens DNA (cytosine-5)-methyltransferase 3 beta (DNMT3B), transcript variant 2, mRNA
NCBI Official Synonym Full Names	DNA (cytosine-5)-methyltransferase 3 beta
NCBI Official Symbol	DNMT3B
NCBI Official Synonym Symbols	ICF; ICF1; M.HsaIIIB
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3B; DNA (cytosine-5)-methyltransferase 3B; DNA MTase HsaIIIB; DNA methyltransferase HsaIIIB
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3B
UniProt Gene Name	DNMT3B
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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/dnmt3b-antibody-clone-2280c3a-flow-cytometry-western-blot-immunocytochemistry-dot-blot-elisa/36391>