

Mouse anti-Human DNMT3a Monoclonal Antibody | anti-DNMT3A antibody

Monoclonal Antibody to DNMT3a (Clone: ABM13G4)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78268	Mouse	Human	Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

DNMT3a; Monoclonal Antibody; Monoclonal Antibody to DNMT3a (Clone: ABM13G4); DNA (cytosine-5)-methyltransferase 3A; DNA methyltransferase HsaIIIA; DNA MTase HsaIIIA; M.HsaIIIA; anti-DNMT3A antibody

PRODUCT SPECIFICATIONS

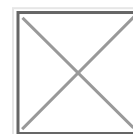
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	ABM13G4
Purity/Purification	Purified Protein G Chromatography
Form/Format	25 ug in 50 ul/100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Sequence Length	912
Applicable Applications for anti-DNMT3A antibody	WB (Western Blot), FCM/FACS (Flow Cytometry)
Immunogen Information	A partial length recombinant protein from DNMT3a was used as the immunogen for this antibody.
Antigen	DNMT3a
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Fig-2: Intracellular flow cytometric analysis of Dnmt3a on HEK293 cells using 0.5 ug/10⁶ cells of antibody (Clone: ABM13G4). Green represents isotype control; red represents anti-Dnmt3a antibody. Goat anti-mouse PE conjugate was used as secondary antibody. (Cells were fixed with 4% paraformaldehyde for 10 min and washed with PBS by centrifuging at 1100 for 5 min followed by permeabilization for 20 min and washed again as mentioned above. Then cell were incubated with primary antibody for 45 min. and after washing the cells twice in PBS, incubated with conjugated secondary antibody for 30 min. Data acquisition was done after washing twice with PBS as mentioned above).



WB (Western Blot)

Fig-1: Western blot analysis of DNMT3a. Anti-DNMT3a antibody (Clone: ABM13G4) was used at 2 ug/ml on h heart lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-DNMT3A antibody	Dnmt3a belongs to the mammalian methyltransferase gene family which is responsible for tissue-specific gene expression. Dnmt3a together with other methyltransferases conducts de novo methylation of cytosine residues in CpG islands by the enzymatic addition of methyl residues from S-adenosyl-L-methionine to the 5-carbon atom of the cytosine ring. Dnmt3a also directs a metabolic program by repressing key genes to enable the coupling of insulin secretion to glucose levels during beta cell maturation. Loss of Dnmt3a in pancreatic beta cells prevents this developmental metabolic reprogramming, resulting in loss of GSIS (Glucose-Stimulated Insulin Secretion)). Dnmt3a overexpression has been found in several cancers including AML (Acute Myeloid Leukemia).
Product Categories/Family for anti-DNMT3A antibody	Antibodies; DNA methylation and Repair

NCBI AND UNIPROT INFORMATION

NCBI GI #	166215081
NCBI GeneID	1788
UniProt Accession #	Q9Y6K1; Q86TE8; Q86XF5; Q8IZV0; Q8WXU9; E9PEB8
Molecular Weight	16,866 Da
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3A
NCBI Official Synonym Full Names	DNA methyltransferase 3 alpha
NCBI Official Symbol	DNMT3A
NCBI Official Synonym Symbols	TBRS; DNMT3A2; M.HsaIIIA
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3A
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3A
UniProt Gene Name	DNMT3A
UniProt Synonym Gene Names	Dnmt3a; DNA MTase HsaIIIA; M.HsaIIIA

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/dnmt3a-antibody-clone-abm13g4-western-blot-flow-cytometry-elisa/78268>