DNMT3a Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DNMT3a, Polyclonal Antibody
Full Product Name	DNMT3a Rabbit pAb
Product Gene Name	anti-DNMT3a antibody
Product Synonym Names	DNMT3A2; M.HsaIIIA; Dnmt3a; MCMT; DNA methyltransferase 3a
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	130kDa
OMIM	602769
3D Structure	ModBase 3D Structure for Q9Y6K1
Immunogen	A synthesized peptide derived from human Dnmt3a
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DNMT3a antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-DNMT3a antibody	WB: 1:500-1:2000 ICC/IF: 1:100-1:500
Related Product Information for anti-DNMT3a antibody	Methylation of DNA at cytosine residues in mammalian cells is a heritable, epigenetic modification that is critical for proper regulation of gene expression, genomic imprinting and development. Three families of mammalian DNA methyltransferases have been identified: DNMT1, DNMT2 and DNMT3. DNMT1 is constitutively expressed in proliferating cells and functions as a maintenance methyltransferase, transferring proper methylation patterns to newly synthesized DNA during replication.
Other Notes	Small volumes of anti-DNMT3a antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DNMT3a purchase	MBS8542558 is an antibody targeting DNMT3a. Also known as DNMT3a Rabbit pAb. Reactive in Human, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNMT3a. It may not necessarily be applicable to this product.

NCBI GI #	12751473
NCBI GeneID	1788
NCBI Accession #	NP_072046.2

UniProt Primary Accession #	Q9Y6K1
UniProt Related Accession #	Q9Y6K1
GenBank Nucleotide #	NP_072046.2
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3A isoform a
NCBI Official Synonym Full Names	DNA methyltransferase 3 alpha
NCBI Official Symbol	DNMT3A
NCBI Official Synonym Symbols	TBRS; DNMT3A2; M.HsaIIIA
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3A
UniProt Synonym Protein Names	DNA methyltransferase HsaIIIA
Protein Family	DNA
UniProt Gene Name	DNMT3A
UniProt Synonym Gene Names	Dnmt3a; DNA MTase HsaIIIA; M.HsaIIIA
UniProt Entry Name	DNM3A_HUMAN
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3A
NCBI Summary for DNMT3a	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 that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. [provided by RefSeq, Mar 2016]
Research Articles on DNMT3a	**1.** Kinetic analyses showed that the R882H favored substrate was methylated by R882H with 45% increased rate when compared with wildtype DNA cytosine methyltransferase 3A2 (DNMT3A), while methylation of the disfavored substrate was reduced 7-fold.
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