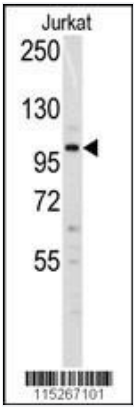
DNMT3A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Dnmt3a, Polyclonal Antibody
Full Product Name	Dnmt3a, NT (R46) (DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsaIIIA) (MaxLight 490)
Product Gene Name	anti-Dnmt3a antibody
Product Synonym Names	DNMT3A; DNA (cytosine-5)-methyltransferase 3A; DNA methyltransferase HsaIIIA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	102kDa
Chromosome Location	Chromosome: 2; NC_000002.11 (25451421..25565459, complement). Location: 2p23
OMIM	602769
3D Structure	ModBase 3D Structure for Q9Y6K1
Immunogen	Dnmt3a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39~68 amino acids from the N-terminal region of human Dnmt3a.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-Dnmt3a antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-Dnmt3a antibody	Western Blot (WB), FLISA, Immunohistochemistry (IHC)
Application Notes for anti-Dnmt3a antibody	WB: 1:50-100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Dnmt3a 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. Dnmt3a is 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.
Product References and Citations for anti-Dnmt3a antibody	Xie, S., et al., Gene 236(1):87-95 (1999). Robertson, K.D., et al., Nucleic Acids Res. 27(11):2291-2298 (1999).

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	MBS6293109 is an antibody targeting Dnmt3a. Also known as Dnmt3a, NT (R46) (DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsaIIIA) (MaxLight 490). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-Dnmt3a antibody
Western blot analysis of anti-Dnmt3a Antibody (N-term R46) in Jurkat cell line lysates (35ug/lane). Dnmt3a(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-Dnmt3a antibody
Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with Dnmt3a antibody (N-term R46), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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 Secondary Accession #	Q86TE8; Q86XF5; Q8IZV0; Q8WXU9; E9PEB8
UniProt Related Accession #	Q9Y6K1
GenBank Nucleotide #	NM_022552.4
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3A isoform a
NCBI Official Synonym Full Names	DNA (cytosine-5-)-methyltransferase 3 alpha
NCBI Official Symbol	DNMT3A
NCBI Official Synonym Symbols	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; DNA (cytosine-5)-methyltransferase 3A; DNA MTase HsaIIIA; DNA cytosine methyltransferase 3A2

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