DNMT3A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DNMT3A, Polyclonal Antibody
Full Product Name	DNMT3A, CT (V897) (DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsaIIIA) (MaxLight 650)
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 MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	101858 Da
OMIM	602769
3D Structure	ModBase 3D Structure for Q9Y6K1
Immunogen	DNMT3A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 871-900 amino acids from the C-terminal region of human DNMT3A.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-DNMT3A antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-DNMT3A antibody	Western Blot (WB), FLISA
Application Notes for anti-DNMT3A antibody	WB: 1:100-500 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. 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. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq].
Product References and Citations for anti-DNMT3A antibody	Holz-Schietinger, C., et al. J. Biol. Chem. 285(38):29091-29100(2010). Kelemen, L.E., et al. Cancer Epidemiol. Biomarkers Prev. 19(7):1822-1830(2010). Park, C.W., et al. J Cardiovasc Transl Res 3(3):290-295(2010). Haggarty, P., et al. PLoS ONE 5 (6), E11329 (2010): Zhao, Z., et al. J. Biomed. Biotechnol. 2010, 737535 (2010).

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	MBS6293078 is an antibody targeting DNMT3A. Also known as DNMT3A, CT (V897) (DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsaIIIA) (MaxLight 650). Reactive in Human. 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 #	28559069
NCBI GeneID	1788
NCBI Accession #	NP_783328.1
NCBI Related Accession #	NP_715640.2
UniProt Primary Accession #	Q9Y6K1
UniProt Secondary Accession #	Q86TE8; Q86XF5; Q8IZV0; Q8WXU9; E9PEB8
UniProt Related Accession #	Q9Y6K1
GenBank Nucleotide #	NM_175629.2
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	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.** Here, we summarize the evidence on the DNA dehydroxymethylase and demethylase activity of DNMT-3A and -3B.
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