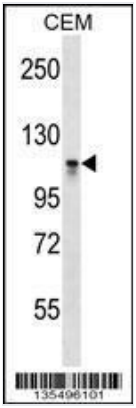
DNMT3A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DNMT3A, Polyclonal Antibody
Full Product Name	DNMT3A, CT (V897) (DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsaIIIA)
Product Gene Name	anti-DNMT3A antibody
Product Synonym Names	Anti -DNMT3A, CT (V897) (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, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	101,858 Da
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 871-900 amino acids from the C-terminal region of human DNMT3A.
Product Categories/Family for anti-DNMT3A antibody	Antibodies; Abs to Enzymes; Methyltransferase
Applications Tested/Suitable for anti-DNMT3A antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-DNMT3A antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
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].
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	MBS6006576 is an antibody targeting DNMT3A. Also known as DNMT3A, CT (V897) (DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsaIIIA). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DNMT3A antibody
DNMT3A Antibody (C-term V897) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the DNMT3A antibody detected the DNMT3A protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNMT3A. It may not necessarily be applicable to this product.

NCBI GI #	77176455
NCBI GeneID	1788
NCBI Accession #	NP_715640.2
UniProt Primary Accession #	Q9Y6K1
UniProt Secondary Accession #	Q86TE8; Q86XF5; Q8IZV0; Q8WXU9; E9PEB8
UniProt Related Accession #	Q9Y6K1
GenBank Nucleotide #	NM_153759.3
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3A isoform b
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
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. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

UniProt Comments for DNMT3A	DNMT3A: a DNA methyltransferase required for genome wide de novo methylation and essential for development. DNA methylation is coordinated with methylation of histones. Prefers CpG methylation to CpA, CpT, and CpC methylation. Methylates CpG sites at a rate much slower than DNMT1, but greater than DNMT3b. Methylation is coordinated with methylation of histones. Binds the ZNF238 transcriptional repressor. Interacts with SETDB1 and DNMT1. Can co-localize with heterochromatin protein (HP1) and methyl-CpG binding protein (MeCBP). Associates with HDAC1 through its ADD-type zinc-finger. Highly expressed in fetal tissues, skeletal muscle, heart, peripheral blood mononuclear cells, kidney, and at lower levels in placenta, brain, liver, colon, spleen, small intestine and lung. Protein type: Methyltransferase, DNA; Amino Acid Metabolism - cysteine and methionine; Methyltransferase; EC 2.1.1.37 Chromosomal Location of Human Ortholog: 2p23 Cellular Component: XY body; nucleoplasm; euchromatin; nuclear matrix; cytoplasm; nuclear heterochromatin; nucleus; chromosome, pericentric region Molecular Function: DNA (cytosine-5-)-methyltransferase activity; identical protein binding; protein binding; DNA binding; DNA (cytosine-5-)-methyltransferase activity, acting on CpG substrates; unmethylated CpG binding; metal ion binding; chromatin binding; DNA-methyltransferase activity Biological Process: establishment and/or maintenance of chromatin architecture; cytosine methylation within a CG sequence; genetic imprinting; methylation-dependent chromatin silencing; negative regulation of gene expression, epigenetic; DNA methylation during gametogenesis; DNA methylation; S-adenosylmethioninamine metabolic process; S-adenosylhomocysteine metabolic process; spermatogenesis; gene expression; negative regulation of transcription from RNA polymerase II promoter; DNA methylation during embryonic development; regulation of gene expression, epigenetic; DNA methylation on cytosine Disease: Tatton-brown-rahman Syndrome
Research Articles on DNMT3A	**1.** The HDAC1/DNMT3A-containing complex is associated with the suppression of Oct4 in cervical cancer cells, and the activity of HDAC1 is required in the repression of Oct4.
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