DNMT3L Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DNMT3L, Polyclonal Antibody
Full Product Name	DNMT3L, CT (DNMT3L, DNA (cytosine-5)-methyltransferase 3-like) (MaxLight 405)
Product Gene Name	anti-DNMT3L antibody
Product Synonym Names	DNMT3L; DNA (cytosine-5)-methyltransferase 3-like
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 MaxLight405.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,583 Da
Chromosome Location	Chromosome: 21; NC_000021.8 (45666223..45682099, complement). Location: 21q22.3
OMIM	606588
3D Structure	ModBase 3D Structure for Q9UJW3
Immunogen	DNMT3L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 354-381 amino acids from the C-terminal region of human DNMT3L.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-DNMT3L antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-DNMT3L antibody	Western Blot (WB), FLISA
Application Notes for anti-DNMT3L antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-DNMT3L 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 nuclear protein with similarity to DNA methyltransferases. This protein is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, this protein does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and it is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1. Alternative splicing results in two transcript variants. An additional splice variant has been described but its biological validity has not been determined.

Product References and Citations for anti-DNMT3L antibody	Holz-Schietinger, C., et al. J. Biol. Chem. 285(38):29091-29100(2010). Manderwad, G.P., et al. Arch. Pathol. Lab. Med. 134(8):1193-1196(2010). Kim, H., et al. Int. J. Oncol. 36(6):1563-1572(2010). Minami, K., et al. Clin. Cancer Res. 16(10):2751-2759(2010). Haggarty, P., et al. PLoS ONE 5 (6), E11329 (2010).
Other Notes	Small volumes of anti-DNMT3L 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 DNMT3L purchase	MBS6293141 is an antibody targeting DNMT3L. Also known as DNMT3L, CT (DNMT3L, DNA (cytosine-5)-methyltransferase 3-like) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNMT3L. It may not necessarily be applicable to this product.

NCBI GI #	28872778
NCBI GeneID	29947
NCBI Accession #	NP_037501.2
UniProt Primary Accession #	Q9UJW3
UniProt Secondary Accession #	Q9BUJ4; E9PB42
UniProt Related Accession #	Q9UJW3
GenBank Nucleotide #	NM_013369.2
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3-like isoform 1
NCBI Official Synonym Full Names	DNA (cytosine-5-)-methyltransferase 3-like
NCBI Official Symbol	DNMT3L
NCBI Official Synonym Symbols	MGC1090
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3-like
Protein Family	DNA (cytosine-5)-methyltransferase
UniProt Gene Name	DNMT3L
UniProt Entry Name	DNM3L_HUMAN
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3-like; DNA (cytosine-5)-methyltransferase 3-like; OTTHUMP00000109516; OTTHUMP00000109517; cytosine-5-methyltransferase 3-like protein; human cytosine-5-methyltransferase 3-like protein
Research Articles on DNMT3L	**1.** mutation analysis of SYCP3, DNMT3L and MSH4 in patients with maturation arrest of spermatogenesis and couples with recurrent miscarriages.
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