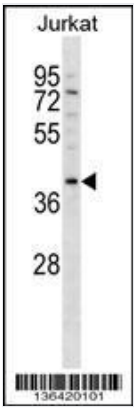
# DNMT3L Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | DNMT3L, Polyclonal Antibody |
| **Full Product Name** | DNMT3L, CT (DNMT3L, DNA (cytosine-5)-methyltransferase 3-like) (PE) |
| **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 R-Phycoerythrin (PE). |
| **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: PE 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** | PE |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **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<br>FLISA: 1:1,000<br>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. |

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| **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** | MBS6293146 is an antibody targeting DNMT3L. Also known as DNMT3L, CT (DNMT3L, DNA (cytosine-5)-methyltransferase 3-like) (PE). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-DNMT3L antibody**
DNMT3L Antibody (C-term) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the DNMT3L antibody detected the DNMT3L protein (arrow).

## ADDITIONAL DETAILS

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

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| **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 |

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| **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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