# DNMT3A Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | DNMT3A, Polyclonal Antibody |
| **Full Product Name** | DNMT3A, CT (V897) (DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsaIIIA) (MaxLight 750) |
| **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 MaxLight750. |
| **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: MaxLight750 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** | MaxLight750 |
| **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<br>FLISA: 1:1,000<br>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). |

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| **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** | MBS6293079 is an antibody targeting DNMT3A. Also known as DNMT3A, CT (V897) (DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsaIIIA) (MaxLight 750). 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.

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| **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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