

Product Datasheet

DNMT3A Antibody (64B1446) [Biotin] NB100-55783

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-55783

DNMT3A Antibody (64B1446) [Biotin]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	64B1446
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Conjugate	Biotin
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	1788
Gene Symbol	DNMT3A
Species	Human, Mouse
Immunogen	This DNMT3A antibody was raised against bacteria expressed recombinant mouse Dnmt3a. The epitope was found to lie near the C-terminus (a.a. 705-908), see Chen et (2002) for details.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 2 ug/ml, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 5 ug/ml, Immunohistochemistry-Paraffin
Application Notes	Western Blot: Detects a band of approximately 120 kDa (predicted molecular weight: 102 kDa). Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



Publications

Fitzgerald KA, McWhirter SM, Faia KL et al. IKKepsilon and TBK1 are essential components of the IRF3 signaling pathway. *Nat Immunol.* 2003-05-01 [PMID: 12692549]

Sumpter R Jr, Loo YM, Foy E et al. Regulating intracellular antiviral defense and permissiveness to hepatitis C virus RNA replication through a cellular RNA helicase, RIG-I. *J Virol.* 2005-03-01 [PMID: 15708988]

Chariot A, Leonardi A, Muller J et al. Association of the adaptor TANK with the I kappa B kinase (IKK) regulator NEMO connects IKK complexes with IKK epsilon and TBK1 kinases. *J Biol Chem.* 2002-10-04 [PMID: 12133833]

Brenner C, Deplus R, Didelot C et al. Myc represses transcription through recruitment of DNA methyltransferase corepressor. *EMBO J.* 2005-01-26 [PMID: 15616584]

Hirasawa R, Chiba H, Kaneda M et al. Maternal and zygotic Dnmt1 are necessary and sufficient for the maintenance of DNA methylation imprints during preimplantation development. *Genes Dev.* 2008-06-15 [PMID: 18559477]

Details:

Antibodies cited: 1. Dnmt3a (IMG-268a): IF/ICC (mouse oocytes and embryos), Fig. 1a. 2. Dnmt3b (IMG-184): IF/ICC (mouse oocytes and embryos), Fig. 1c.

Dennis K, Fan T, Geiman T et al. Lsh, a member of the SNF2 family, is required for genome-wide methylation. *Genes Dev.* 2001-11-15 [PMID: 11711429]

Ko CY, Hsu HC, Shen MR et al. Epigenetic silencing of CCAAT/enhancer-binding protein delta activity by YY1/polycomb group/DNA methyltransferase complex. *J Biol Chem.* 2008-11-07 [PMID: 18753137] (WB)

Details:

HeLa cells in Fig. 7A (IF), 7B (WB following a DNA Affinity Precipitation Assay of nuclear extracts), 7C and D (ChIP): 1. IMG-261A (Dnmt1) 2. IMG-268A (Dnmt3a) 3. IMG-184A (Dnmt3b).

Linhart HG, Lin H, Yamada Y et al. Dnmt3b promotes tumorigenesis in vivo by gene-specific de novo methylation and transcriptional silencing. *Genes Dev* 2007-12-01 [PMID: 18056424]

Pawlak M, Jaenisch R. De novo DNA methylation by Dnmt3a and Dnmt3b is dispensable for nuclear reprogramming of somatic cells to a pluripotent state. *Genes Dev.* 2011-05-15 [PMID: 21576263] (WB, Mouse)

Yan Q, Cho E, Lockett S, Muegge K. Association of Lsh, a regulator of DNA methylation, with pericentromeric heterochromatin is dependent on intact heterochromatin. *Mol Cell Biol.* 2003-12-01 [PMID: 14612388]

Chen T, Ueda Y, Xie S, Li E. A novel Dnmt3a isoform produced from an alternative promoter localizes to euchromatin and its expression correlates with active de novo methylation. *J Biol Chem.* 2002-10-11 [PMID: 12138111]



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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