Product Datasheet

Dnmt3a Antibody NB120-13888SS

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB120-13888SS

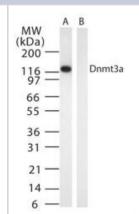
Dnmt3a Antibody (64B1446)

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Product Information	
Unit Size	0.025 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	64B1446
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS containing 0.05% BSA
Product Description	
Host	Mouse
Gene ID	1788
Gene Symbol	DNMT3A
Species	Human, Mouse
Species Reactivity	Cross-reacts with Human (weakly) and Mouse. Not yet tested in other species.
Immunogen	This 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, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin
Recommended Dilutions	Chromatin Immunoprecipitation, Flow Cytometry 1 ug per million cells, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 5 ug/ml, Western Blot 2 ug/ml
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. Use in chromatin immunoprecipitation reported in scientific literature (PMID 24623306)

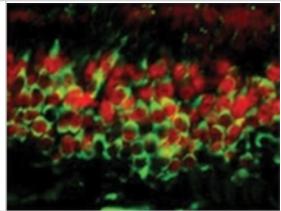


Images

Western Blot: Dnmt3a Antibody (64B1446) [NB120-13888] - Analysis of (A) Dnmt3a transfected 293 cell lysate and (B) untransfected 293 cell lysate using Dnmt3a antibody at 1 ug/ml.

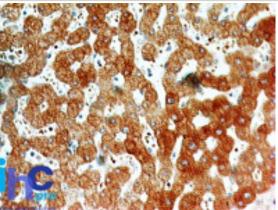


Immunocytochemistry/Immunofluorescence: Dnmt3a Antibody (64B1446) [NB120-13888] - Expression of Dnmt3a in the nuclei of postmitotic neurons in the olfactory epithelium (OE). DNMT3a (red) is coexpressed with neuron-specific tubulin (green) throughout the development of the olfactory epithelium. (Data courtsey of A. Jane Roskams, University of British Columbia).

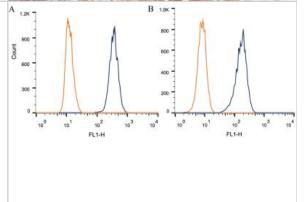


Immunohistochemistry-Paraffin: Dnmt3a Antibody (64B1446) [NB120-13888] - Formalin-fixed, paraffin-embedded human liver stained with Dnmt3a antibody at 5 ug/ml.

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.



Flow Cytometry: Dnmt3a Antibody (64B1446) [NB120-13888] - Intracellular flow cytometric staining of 1 x 10^6 CHO (A) and HEK-293 (B) cells using Dnmt3a antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/1x10^6 cells was used.



Publications

Paredes-Gonzalez X, Fuentes F, Su ZY, Kong AN. Apigenin Reactivates Nrf2 Anti-oxidative Stress Signaling in Mouse Skin Epidermal JB6 P + Cells Through Epigenetics Modifications. AAPS J. 2014 May 16 [PMID: 24830944] (WB, Mouse)

Serra FW, Fang M, Park SM et al. A KRAS-directed transcriptional silencing pathway that mediates the CpG island methylator phenotype. Elife 2014 [PMID: 24623306] (ChIP, Human)

Obata Y, Wakai T, Hara S, Kono T et al. Long exposure to mature ooplasm can alter DNA methylation at imprinted loci in non-growing oocytes but not in prospermatogonia. Reproduction. 2014 Jan 1 [PMID: 24123131] (ICC/IF, Mouse)

Hara S, Takano T, Ogata M et al. Establishment of a Conditional Transgenic System Using the 2A Peptide in the Female Mouse Germline. J. Reprod. Dev. 2014 Mar 15 [PMID: 24632680] (WB, Mouse)

Hara S, Takano T, Fujikawa T et al. Forced expression of DNA methyltransferases during oocyte growth accelerates the establishment of methylation imprints but not functional genomic imprinting. Hum. Mol. Genet. 2014 Mar 18 [PMID: 24599402] (WB, Mouse)

Zhou JX, Dhawan S, Fu H et al. Combined modulation of polycomb and trithorax genes rejuvenates beta cell replication. J Clin Invest 2013 Oct 8 [PMID: 24216481] (WB, Mouse)

Wongtrakoongate P, Li J, Andrews PW. DNMT3B inhibits the re-expression of genes associated with induced pluripotency. Exp Cell Res 2013 Dec 10 [PMID: 24333507] (WB, Human)

Hara ES1, Ono M1, Eguchi T2 et al. miRNA-720 Controls Stem Cell Phenotype, Proliferation and Differentiation of Human Dental Pulp Cells. PLoS One 2013 Dec 30 [PMID: 24386225] (ICC/IF, Human)

MacDonald JL, Gin CS, Roskams AJ. Stage-specific induction of DNA methyltransferases in olfactory receptor neuron development. Dev Biol. 2005 Dec 15 [PMID: 16288735]

Hong GM, Bain LJ. Sodium arsenite represses the expression of myogenin in C2C12 mouse myoblast cells through histone modifications and altered expression of Ezh2, Glp, and Igf-1. Toxicol Appl Pharmacol. 2012 May 1 [PMID: 22426358]

Ueda Y, Okano M, Williams C et al. Roles for Dnmt3b in mammalian development: a mouse model for the ICF syndrome. Development. 2006 Mar [PMID: 16501171]

Weisenberger DJ, Velicescu M, Cheng JC et al. Role of the DNA methyltransferase variant DNMT3b3 in DNA methylation. Mol Cancer Res. 2004 Jan [PMID: 14757847]

More publications at http://www.novusbio.com/NB120-13888





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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

