Product Datasheet

DNMT3A Antibody (64B1446) - Azide and BSA Free
NBP2-80699

Unit Size: 0.1 mg

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

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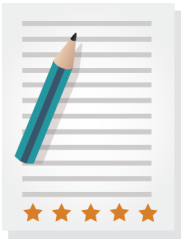


NBP2-80699

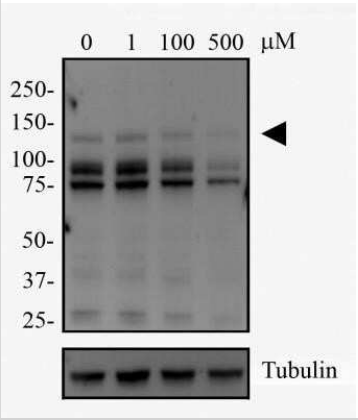
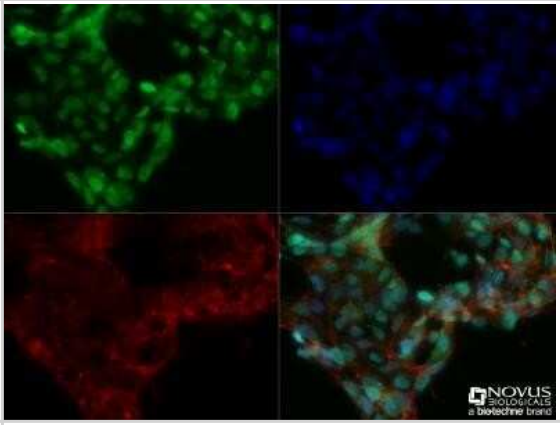
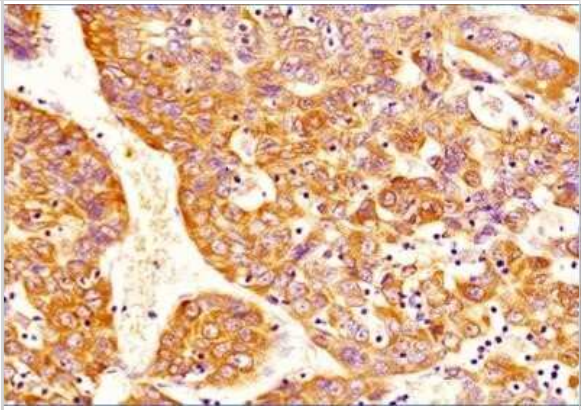
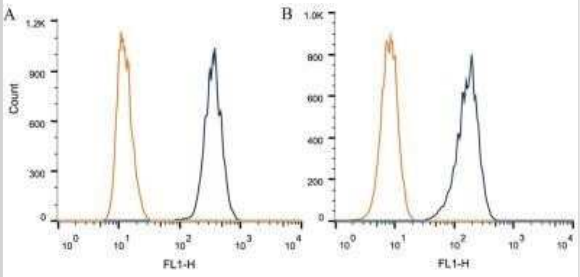
DNMT3A Antibody (64B1446) - Azide and BSA Free

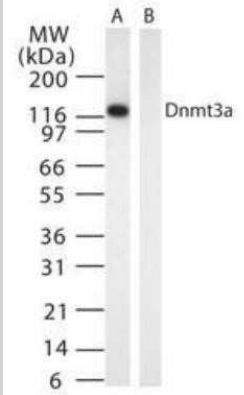
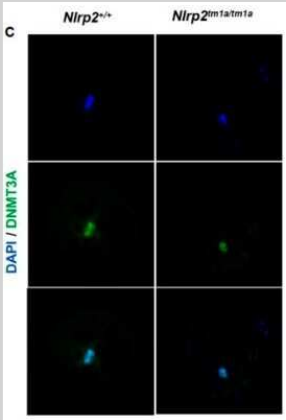
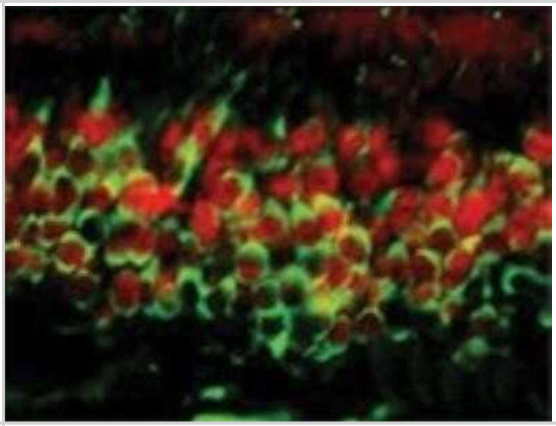
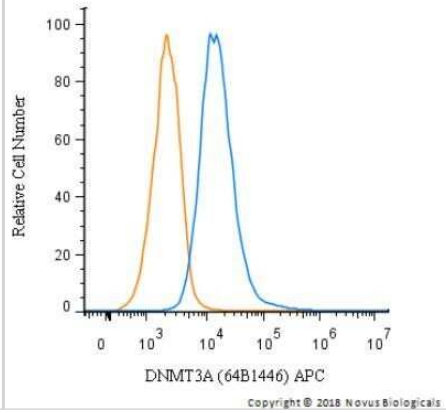
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	64B1446
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS

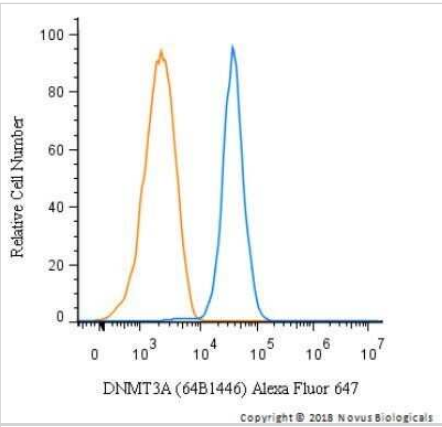
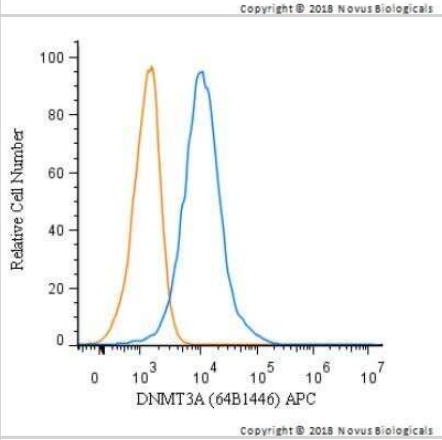
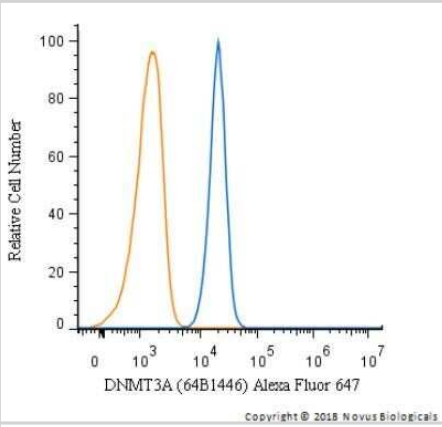
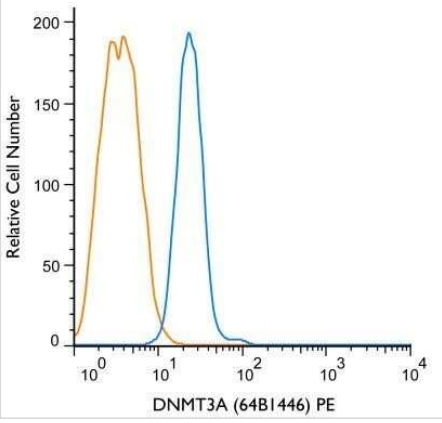
Product Description	
Description	Novus Biologicals Mouse DNMT3A Antibody (64B1446) - Azide and BSA Free (NB120-13888) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	1788
Gene Symbol	DNMT3A
Species	Human, Mouse, Rat
Immunogen	This DNMT3A Antibody (64B1446) 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, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP), CyTOF-ready, Immunohistochemistry Whole-Mount
Recommended Dilutions	Western Blot, Chromatin Immunoprecipitation reported in scientific literature (PMID 24623306), Flow Cytometry 1 ug per million cells, Immunohistochemistry reported in multiple pieces of scientific literature, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 5 ug/ml. Use reported in scientific literature (PMID 22134929), Immunohistochemistry-Frozen reported in scientific literature (PMID 22134929), Immunohistochemistry Whole-Mount reported in scientific literature (PMID 26507142), Chromatin Immunoprecipitation (ChIP), CyTOF-ready
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.

Images

Western Blot: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - NTERA-2 cells were treated with Zebularine as indicated for 24 hours. Cell lysates were prepared and separated on a 7.5% gel by SDS-PAGE. Protein was transferred to PVDF membrane and blocked in 5% non-fat milk. The membrane was probed with 2 ug/mL anti-Dnmt3a in 1% milk, and detected with an anti-mouse HRP secondary antibody using chemiluminescence. Note the decrease in Dnmt3a expression upon treatment with 500 uM Zebularine (arrowhead). Additional bands at 90 and 75 kDa can also be detected with this antibody and may represent alternative splice variants. Tubulin is shown as a loading control. Image from the standard format of this antibody.	
Immunocytochemistry/Immunofluorescence: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - Ntera2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-DNMT3A (68B1446) [NB120-13888] at a 1:200 dilution overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.	
Immunohistochemistry: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - Detection of DNMT3A on human hepatocellular carcinoma tissue section (NBP2-30221) using 1:100 dilution of DNMT3A antibody (clone 64B1446). The antibody generated a specific cytoplasmic staining in all the cancer cells while some of the cells depicted nucl	
Flow Cytometry: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - 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. Image from the standard format of this antibody.	

Western Blot: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - Analysis of (A) Dnmt3a transfected 293 cell lysate and (B) untransfected 293 cell lysate using Dnmt3a antibody at 1 ug/mL. Image from the standard format of this antibody.	
Immunocytochemistry/Immunofluorescence: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - DNMT1 reveals a SCMC-like cortical localization with aberrant localization in Nlrp2tm1a/tm1a derived oocytes. Whole mount immunofluorescence for DNMT3A in unfertilized control oocytes reveals a characteristic metaphase associated localization and no difference is noted in oocytes derived from Nlrp2tm1a/tm1adams. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/srep44667), licensed under a CC-BY license. Image from the standard format of this antibody.	
Immunocytochemistry/Immunofluorescence: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - Expression of Dnmt3a in the nuclei of post-mitotic neurons in the olfactory epithelium (OE). DNMT3a (red) is co-expressed with neuron-specific tubulin (green) throughout the development of the olfactory epithelium. Data courtesy of A. Jane Roskams, University of British Columbia. Image from the standard format of this antibody.	
Flow Cytometry: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - An intracellular stain was performed on HeLa cells with DNMT3A (64B1446) NB120-13888APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to allophycocyanin (APC).	

Flow Cytometry: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - An intracellular stain was performed on HepG2 cells with DNMT3A (64B1446) NB120-13888AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 647.	
Flow Cytometry: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - An intracellular stain was performed on HepG2 cells with DNMT3A (64B1446) NB120-13888APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to allophycocyanin (APC).	
Flow Cytometry: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - An intracellular stain was performed on Jurkat cells with DNMT3A (64B1446) NB120-13888AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 647.	
Flow Cytometry: DNMT3A Antibody (64B1446) - Azide and BSA Free [NBP2-80699] - Using the PE direct conjugate, an intracellular stain was performed on NTERA-2 cells with DNMT3A (64B1446) NB120-13888PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to phycoerythrin.	

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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