

DNMT3A Monoclonal Antibody (64B1446)

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Gerbil
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	64B1446
Conjugate	Unconjugated
Immunogen	Bacteria expressed recombinant mouse Dnmt3a.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2537690

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	1:10-1:500	-
Flow Cytometry (Flow)	1 µg per million cells	-
ChIP assay (ChIP)	Assay-Dependent	-

Product Specific Information

In Western blot, this antibody detects a band at approximately 120 kDa (predicted molecular weight: 102 kDa).

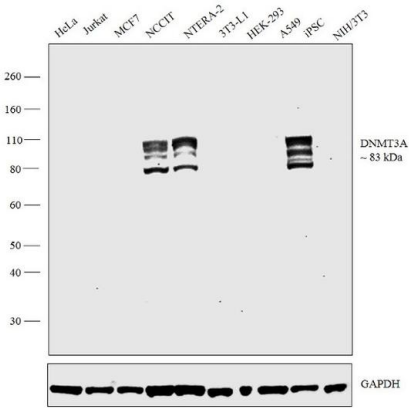
Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.

Suggested positive control: antigen standard for DNMT3A (transient overexpression lysate), transfected cell lysate (WB), HeLa cells (ICC).

Product Images For DNMT3A Monoclonal Antibody (64B1446)

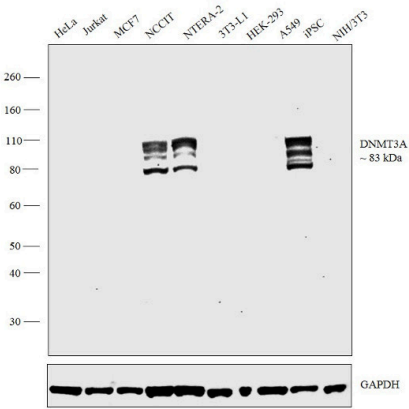
DNMT3A Antibody (MA5-16171) in WB

Western blot analysis was performed on modified whole cell extracts (1% SDS) (30 µg lysate) of HeLa (Lane 1), Jurkat (Lane 2) MCF7 (Lane 3), NCCIT (Lane 4), NTERA-2 (Lane 5), 3T3-L1 (Lane 6), HEK-293 (Lane 7), A549 (Lane 8), iPSC (Lane 9) and NIH/3T3 (Lane 10). The blot was probed with Anti- DNMT3A Monoclonal Antibody (Product # MA5-16171, 2 µg/mL) and detected by chemiluminescence using Goat anti Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 83 kDa band corresponding to DNMT3A was detected in NCCIT, NTERA-2 and iPSC when compared to other cell lines which are reported to be negative for DNMT3A expression.



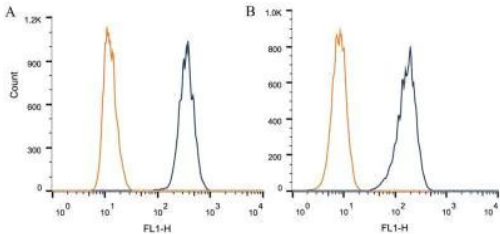
DNMT3A Antibody (MA5-16171)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Expression of DNMT3A was observed specifically in NCCIT, NTERA-2 and iPSC when compared to other cell lines which had little or no expression of DNMT3A using Anti-DNMT3A Monoclonal Antibody (Product # MA5-16171) in Western Blot. {RE}



DNMT3A Antibody (MA5-16171) in Flow

Flow cytometry of DNMT3A in 1 x 10⁶ CHO (A) and HEK-293 (B) cells. Samples were incubated in DNMT3A monoclonal antibody (Product # MA5-16171) using a dilution of 1 µg/1x10⁶ cells. Antibody (dark blue). Isotype control shown in orange.



View more figures on thermofisher.cn

Western Blot (1)

Computational and mathematical methods in medicine	Year 2022
DNMT1-Mediated DNA Methylation Targets CDKN2B to Promote the Repair of Retinal Ganglion Cells in Streptozotocin-Induced Mongolian Gerbils during Diabetic Retinopathy.	Species Gerbil
"MA5-16171 was used in Western Blot to explore the role of DNA cytosine-5-methyltransferase 1 (DNMT1) in the development of early diabetic retinopathy and its potential underlying mechanism."	Dilution 1:500
Authors: Wang X,Zhang J,Liao Y,Jin Y,Yu X,Li H,Yang Q,Li X,Chen R,Wu D,Zhu H	

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.