

# 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).

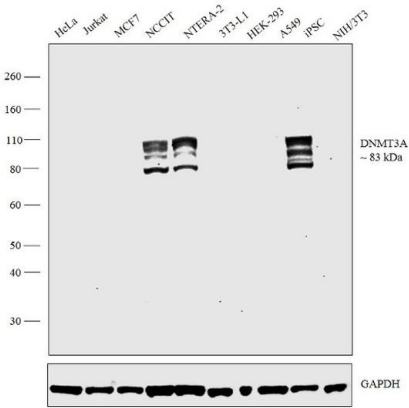
Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.

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

Product Images For DNMT3A Monoclonal Antibody (64B1446)

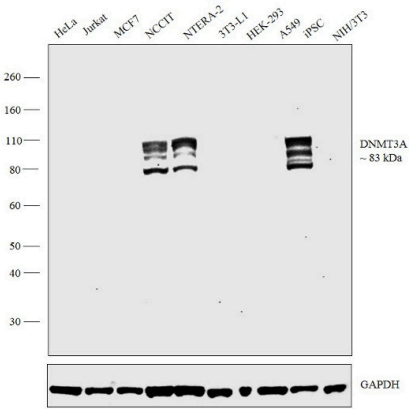
DNMT3A Antibody (MA5-16171) in WB

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.



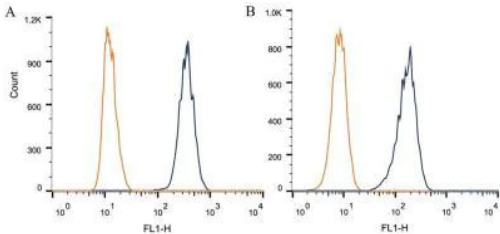
DNMT3A Antibody (MA5-16171)

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 10<sup>6</sup> CHO (A) and HEK-293 (B) cells. Samples were incubated in DNMT3A monoclonal antibody (Product # MA5-16171) using a dilution of 1 µg/1x10<sup>6</sup> cells. Antibody (dark blue). Isotype control shown in orange.



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Western Blot (1)

Computational and mathematical methods in medicine	Year 2022
<b>DNMT1-Mediated DNA Methylation Targets CDKN2B to Promote the Repair of Retinal Ganglion Cells in Streptozotocin-Induced Mongolian Gerbils during Diabetic Retinopathy.</b>	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." Authors: Wang X,Zhang J,Liao Y,Jin Y,Yu X,Li H,Yang Q,Li X,Chen R,Wu D,Zhu H	Dilution 1:500

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