

## DATASHEET

# DNMT3A Rabbit Monoclonal Antibody(C3239)

CAT. NO. AMA02851

### KEY FEATURES

Target	DNMT3A	Source / Host	Rabbit
Reactivity	Human	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.	Storage	at-20°C

### BACKGROUND

Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development . DNA methylation is coordinated with methylation of histones . It modifies DNA in a non-processive manner and also methylates non-CpG sites . May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1 . Plays a role in paternal and maternal imprinting . Required for methylation of most imprinted loci in germ cells . Acts as a transcriptional corepressor for ZBTB18 . Recruited to trimethylated 'Lys-36' of histone H3 (H3K36me3) sites . Can actively repress transcription through the recruitment of HDAC activity . Also has weak auto-methylation activity on Cys-710 in absence of DNA .

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### PRODUCT OVERVIEW

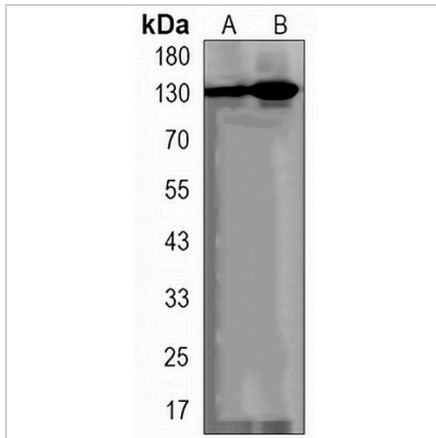
Description	Rabbit monoclonal antibody to DNMT3A
Specificity	Recognizes endogenous levels of DNMT3A protein.
Antibody Type	Primary antibody
Immunogen	A synthetic peptide of human Dnmt3a
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 102 kD; Observed: 130 kD
Form/Buffer	Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.
Alternative Names	DNA (cytosine-5)-methyltransferase 3A; Dnmt3a; DNA methyltransferase HsaIIIa; DNA MTase HsaIIIa; M.HsaIIIa
Gene Symbol	DNMT3A
Entrez Gene	1788(Human)
SwissProt	Q9Y6K1(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of DNMT3A expression in HeLa (A), A549 (B) whole cell lysates.  
(Predicted band size: 102 kD; Observed band size: 130 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.