

DATASHEET

DNMT3A Mouse Monoclonal Antibody(C4058)

CAT. NO. AMA03670

KEY FEATURES

Target	DNMT3A	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	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	1:1000 - 1:2000
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

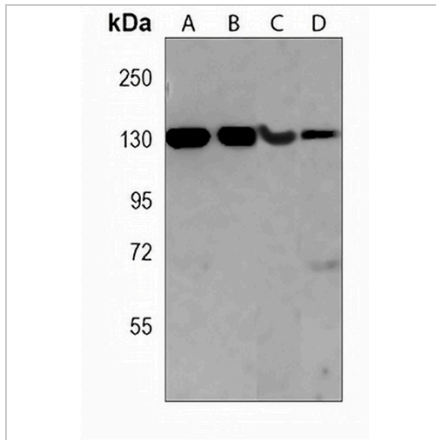
Description	Mouse monoclonal antibody to DNMT3A
Specificity	Recognizes endogenous levels of DNMT3A protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human DNMT3A. The exact sequence is proprietary.
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 101 kD; Observed: 130 kD
Form/Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	DNA (cytosine-5)-methyltransferase 3A; Dnmt3a; DNA methyltransferase HsaIII A; DNA MTase HsaIII A; M.HsaIII A
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 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 T47D (A), CCRFCEM (B), Jurkat (C), HeLa (D) whole cell lysates. (Predicted band size: 101 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.