

DATASHEET

DNMT1 Mouse Monoclonal Antibody(C2672)

CAT. NO. AMA02284

KEY FEATURES

Target	DNMT1	Source / Host	Mouse
Reactivity	Human, Monkey	Clonality	Monoclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

DNA methyltransferase that methylates CpG residues . Preferentially methylates hemimethylated DNA . Associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance . Associates with chromatin during G2 and M phases to maintain DNA methylation independently of replication . It is responsible for maintaining methylation patterns established in development . DNA methylation is coordinated with methylation of histones . Mediates transcriptional repression by direct binding to HDAC2 . In association with DNMT3B and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9 .

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
IHC	1:100 - 1:500

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal to DNMT1
Specificity	Recognizes endogenous levels of DNMT1 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human DNMT1 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 183 kD; Observed: 183 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	AIM; CXXC9; DNMT; DNA (cytosine-5)-methyltransferase 1; Dnmt1; CXXC-type zinc finger protein 9; DNA methyltransferase HsaI; DNA MTase HsaI; M.HsaI; MCMT
Gene Symbol	DNMT1
Entrez Gene	1786(Human)
SwissProt	P26358(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.

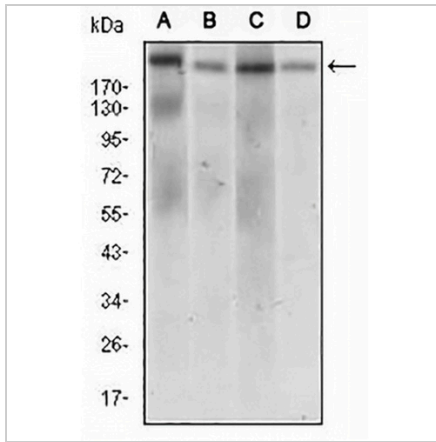
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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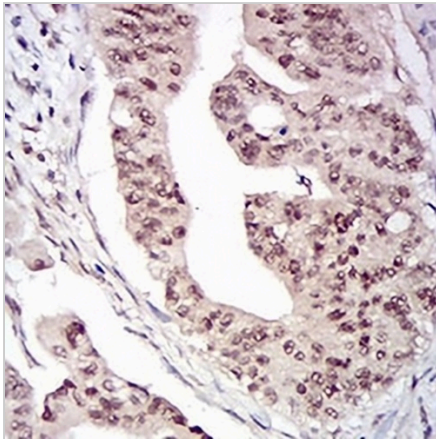
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Western blot analysis of DNMT1 expression in Jurkat (A), COS7 (B), HCT116 (C), NTERA2 (D) whole cell lysates. (Predicted band size: 183 kD; Observed band size: 183 kD)



Immunohistochemical analysis of DNMT1 staining in human rectum cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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.