

DATASHEET

MBD2 Mouse Monoclonal Antibody(C4029)

CAT. NO. AMA03641

KEY FEATURES

Target	MBD2	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IHC	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

Binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides . Binds hemimethylated DNA as well . Recruits histone deacetylases and DNA methyltransferases to chromatin . Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin . Acts as a transcriptional repressor and plays a role in gene silencing . Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression . May enhance the activation of some unmethylated cAMP-responsive promoters .

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	1:50 - 1:200

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

PRODUCT OVERVIEW

Description	Mouse monoclonal antibody to MBD2
Specificity	Recognizes endogenous levels of MBD2 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human MBD2. The exact sequence is proprietary.
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 43 kD; Observed: 43; 32 kD
Form/Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Methyl-CpG-binding domain protein 2; Demethylase; DMTase; Methyl-CpG-binding protein MBD2
Gene Symbol	MBD2
Entrez Gene	8932(Human)
SwissProt	Q9UBB5(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.

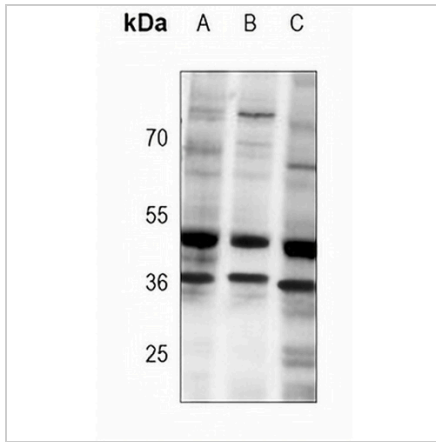
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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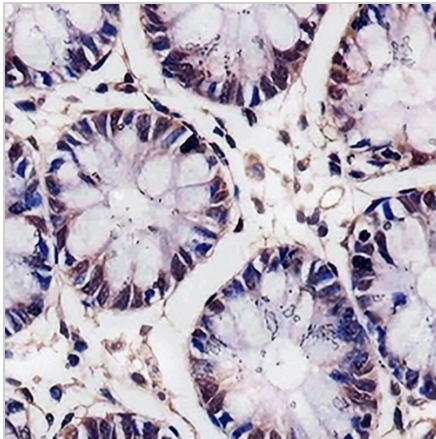
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Western blot analysis of MBD2 expression in K562 (A), MCF7 (B), Jurkat (C) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 43; 32 kD)



Immunohistochemical analysis of MBD2 staining in human colon 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.