10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MBD3 Antibody (C-term)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2203b

Product Information

Application	WB, E
Primary Accession	O95983
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	995CT3.2.2
Calculated MW	32844

Additional Information

Gene ID	53615
Other Names	Methyl-CpG-binding domain protein 3, Methyl-CpG-binding protein MBD3, MBD3
Target/Specificity	Purified His-tagged MBD3 protein was used to produced this monoclonal antibody.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MBD3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MBD3
Function	Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:12124384, PubMed:16428440, PubMed:28977666). Acts as transcriptional repressor and plays a role in gene silencing (PubMed:10947852, PubMed:18644863). Does not bind to methylated DNA by itself (PubMed:12124384, PubMed:16428440).

	Binds to a lesser degree DNA containing unmethylated CpG dinucleotides (PubMed:24307175). Recruits histone deacetylases and DNA methyltransferases.
Cellular Location	Nucleus. Chromosome. Note=Nuclear, in discrete foci. Detected on chromatin, at promoter regions of active genes

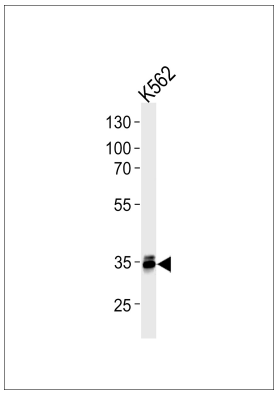
Background

Does not bind DNA by itself. Recruits histone deacetylases and DNA methyltransferases. Acts as transcriptional repressor and plays a role in gene silencing.

References

Hendrich B., et al. Mol. Cell. Biol. 18:6538-6547(1998).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Grimwood J., et al. Nature 428:529-535(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Tatematsu K., et al. Genes Cells 5:677-688(2000).

Images



MBD3 Antibody (C-term) (Cat. #AM2203b) western blot analysis in K562 cell line lysates (35µg/lane).This demonstrates the MBD3 antibody detected the MBD3 protein (arrow).

Citations

- An Embryonic Stem Cell-Specific NuRD Complex Functions through Interaction with WDR5.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.