

# MBD3 Antibody (C-term)

Mouse Monoclonal Antibody (Mab)

Catalog # AM2203b

## Product Information

---

Application	WB, E
Primary Accession	<a href="#">O95983</a>
Reactivity	Human
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: <a href="#">12124384</a> , PubMed: <a href="#">16428440</a> , PubMed: <a href="#">28977666</a> ). Acts as transcriptional repressor and plays a role in gene silencing (PubMed: <a href="#">10947852</a> , PubMed: <a href="#">18644863</a> ). Does not bind to methylated DNA by itself (PubMed: <a href="#">12124384</a> , PubMed: <a href="#">16428440</a> ). 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.

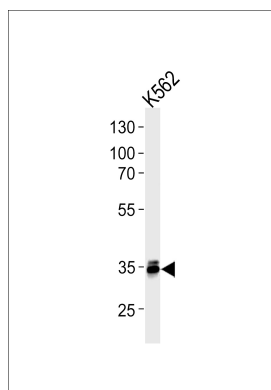
## References

---

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'.