

**MBD3 Antibody (C-term)**  
**Mouse Monoclonal Antibody (Mab)**  
Catalog # AM2203b

### Specification

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#### MBD3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">O95983</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	32844

#### MBD3 Antibody (C-term) - 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

#### 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.

#### MBD3 Antibody (C-term) - 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

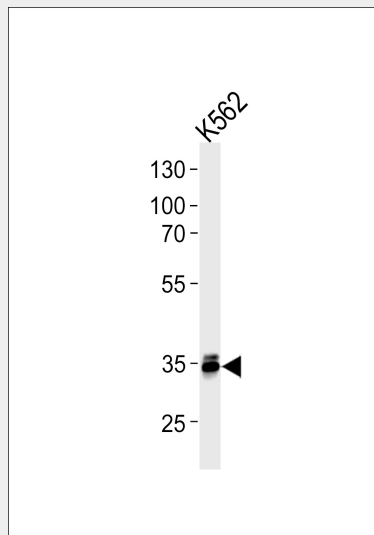
Nucleus. Chromosome. Note=Nuclear, in discrete foci. Detected on chromatin, at promoter regions of active genes

#### MBD3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### MBD3 Antibody (C-term) - 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).

#### MBD3 Antibody (C-term) - Background

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

#### MBD3 Antibody (C-term) - 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).

#### MBD3 Antibody (C-term) - Citations

- [An Embryonic Stem Cell-Specific NuRD Complex Functions through Interaction with WDR5.](#)