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 |

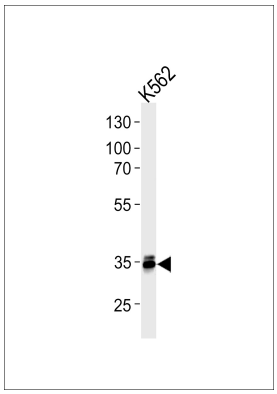
## Background

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'.