

MBD3 Antibody (C-term)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2203b

Specification

MBD3 Antibody (C-term) - Product Information

Application WB,E
Primary Accession O95983
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

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.

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: <u>16428440</u>). Binds to a lesser degree DNA containing unmethylated CpG dinucleotides (PubMed: <u>24307175</u>). Recruits histone deacetylases and DNA methyltransferases.

Cellular Location

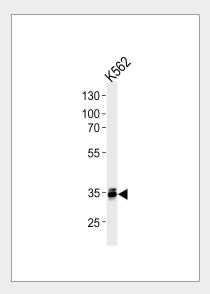
Nucleus. Chromosome. Note=Nuclear, in discrete foci. Detected on chromatin, at promoter regions of active genes

MBD3 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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

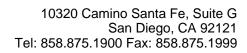
Hendrich B., et al. Mol. Cell. Biol. 18:6538-6547(1998).

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.