

MBD3 Antibody (aa215-230, clone 106B691)
Mouse Monoclonal Antibody
Catalog # ALS12095**Specification**

MBD3 Antibody (aa215-230, clone 106B691) - Product Information

Application	IHC
Primary Accession	O95983
Reactivity	Human, Pig, Chicken, Horse, Xenopus, Bovine, Dog
Host	Mouse
Clonality	Monoclonal
Calculated MW	33kDa KDa

MBD3 Antibody (aa215-230, clone 106B691) - Additional Information**Gene ID** 53615**Other Names**

Methyl-CpG-binding domain protein 3, Methyl-CpG-binding protein MBD3, MBD3

Target/Specificity

Amino acids 215-230 (CKAFMVTDEDIRKQEE) of human MBD3 protein were used as the immunogen.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

MBD3 Antibody (aa215-230, clone 106B691) is for research use only and not for use in diagnostic or therapeutic procedures.

MBD3 Antibody (aa215-230, clone 106B691) - Protein Information**Name** MBD3**Function**

Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed: [16428440](http://www.uniprot.org/citations/16428440), PubMed: [12124384](http://www.uniprot.org/citations/12124384), PubMed: [16428440](http://www.uniprot.org/citations/16428440), PubMed: [28977666](http://www.uniprot.org/citations/28977666)). Acts as transcriptional repressor and plays a role in gene silencing (PubMed: [10947852](http://www.uniprot.org/citations/10947852), PubMed: [18644863](http://www.uniprot.org/citations/18644863)). Does not bind to methylated DNA by itself (PubMed: [12124384](http://www.uniprot.org/citations/12124384), PubMed: [16428440](http://www.uniprot.org/citations/16428440)). Binds to a lesser degree DNA containing unmethylated CpG dinucleotides (PubMed: [16428440](#)).

href="http://www.uniprot.org/citations/24307175" target="_blank">24307175). Recruits histone deacetylases and DNA methyltransferases.

Cellular Location

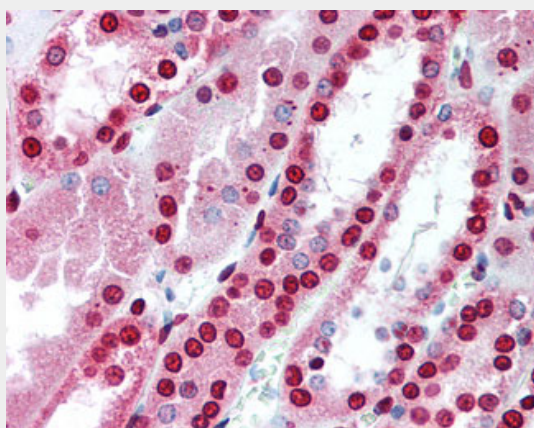
Nucleus. Chromosome. Note=Nuclear, in discrete foci. Detected on chromatin, at promoter regions of active genes

MBD3 Antibody (aa215-230, clone 106B691) - 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 (aa215-230, clone 106B691) - Images



Anti-MBD3 antibody IHC of human kidney.

MBD3 Antibody (aa215-230, clone 106B691) - Background

Acts as transcriptional repressor and plays a role in gene silencing. Does not bind to DNA by itself (PubMed:12124384). Binds to DNA with a preference for sites containing methylated CpG dinucleotides (in vitro). Binds to a lesser degree DNA containing unmethylated CpG dinucleotides (PubMed:24307175). Recruits histone deacetylases and DNA methyltransferases.

MBD3 Antibody (aa215-230, clone 106B691) - 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).