

**MBD2 Antibody**  
Rabbit mAb  
Catalog # AP91620

## Specification

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### MBD2 Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	<a href="#">Q9UBB5</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
Demethylase; DMTase; Mbd2; MBD2a;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	43255 Da

### MBD2 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human MBD2
Description	Binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binds hemimethylated DNA as well. Recruits histone deacetylases and DNA methyltransferases.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### MBD2 Antibody - Protein Information

Name MBD2 ([HGNC:6917](#))

#### Function

Binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides (PubMed:[9774669](http://www.uniprot.org/citations/9774669)). Binds hemimethylated DNA as well (PubMed:[10947852](http://www.uniprot.org/citations/10947852), PubMed:[24307175](http://www.uniprot.org/citations/24307175)). Recruits histone deacetylases and DNA methyltransferases to chromatin (PubMed:[10471499](http://www.uniprot.org/citations/10471499), PubMed:[10947852](http://www.uniprot.org/citations/10947852)). 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))

target="\_blank">16428440</a>, PubMed:<a href="http://www.uniprot.org/citations/28977666" target="\_blank">28977666</a>). Acts as a transcriptional repressor and plays a role in gene silencing (PubMed:<a href="http://www.uniprot.org/citations/10471499" target="\_blank">10471499</a>, PubMed:<a href="http://www.uniprot.org/citations/10947852" target="\_blank">10947852</a>, PubMed:<a href="http://www.uniprot.org/citations/16415179" target="\_blank">16415179</a>). Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression (PubMed:<a href="http://www.uniprot.org/citations/16415179" target="\_blank">16415179</a>). May enhance the activation of some unmethylated cAMP-responsive promoters (PubMed:<a href="http://www.uniprot.org/citations/12665568" target="\_blank">12665568</a>).

### Cellular Location

Nucleus. Chromosome Note=Nuclear, in discrete foci (PubMed:12183469). Detected at replication foci in late S phase. Localizes to methylated chromatin (PubMed:16428440). Localizes to sites of DNA damage in a manner partially dependent on ZMYND8 (PubMed:27732854)

### Tissue Location

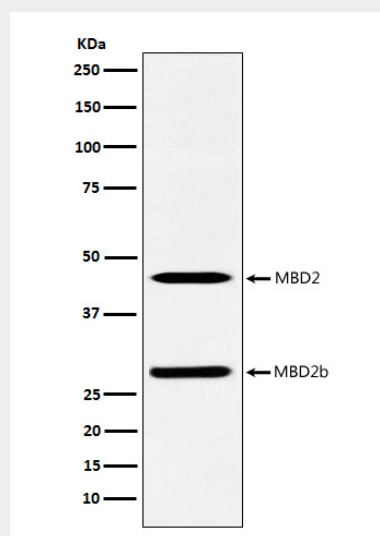
Highly expressed in brain, heart, kidney, stomach, testis and placenta.

## MBD2 Antibody - 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](#)

## MBD2 Antibody - Images



Western blot analysis of MBD2 expression in A375 cell lysate.