

## Anti-MBD2 Rabbit Monoclonal Antibody Catalog # ABO15625

### Specification

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#### Anti-MBD2 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC
Primary Accession	<a href="#">Q9UBB5</a>
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-MBD2 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human.

#### Anti-MBD2 Rabbit Monoclonal Antibody - Additional Information

Gene ID 8932

#### Other Names

Methyl-CpG-binding domain protein 2, Demethylase, DMTase, Methyl-CpG-binding protein MBD2, MBD2 ([HGNC:6917](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6917))

#### Calculated MW

43 kDa, 32 kDa, 29 kDa KDa

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human MBD2

#### Purification

Affinity-chromatography

#### Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-MBD2 Rabbit Monoclonal 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), PubMed:[28977666](http://www.uniprot.org/citations/28977666)). Acts as a transcriptional repressor and plays a role in gene silencing (PubMed:[10471499](http://www.uniprot.org/citations/10471499), PubMed:[10947852](http://www.uniprot.org/citations/10947852), PubMed:[16415179](http://www.uniprot.org/citations/16415179), PubMed:[16415179](http://www.uniprot.org/citations/16415179)). Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression (PubMed:[16415179](http://www.uniprot.org/citations/16415179)). May enhance the activation of some unmethylated cAMP-responsive promoters (PubMed:[12665568](http://www.uniprot.org/citations/12665568)).

### 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

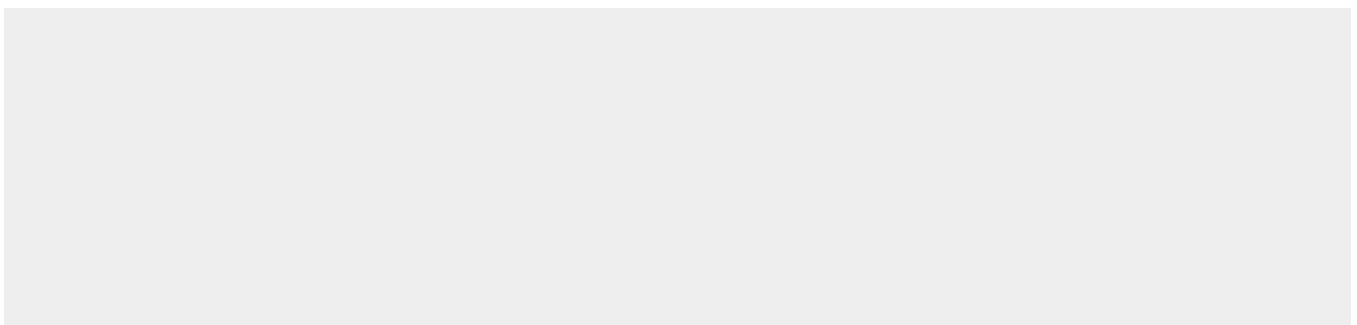
Highly expressed in brain, heart, kidney, stomach, testis and placenta.

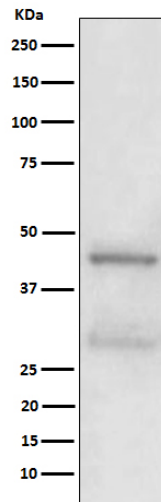
## Anti-MBD2 Rabbit Monoclonal Antibody - Protocols

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](#)

## Anti-MBD2 Rabbit Monoclonal Antibody - Images





Western blot analysis of MBD2 expression in A431 cell lysate.