

# MBD2 Rabbit mAb

Catalog # AP78174

## Product Information

---

<b>Application</b>	WB, IHC-P, IF, ICC
<b>Primary Accession</b>	<a href="#">Q9UBB5</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human MBD2
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	43255

## Additional Information

---

<b>Gene ID</b>	8932
<b>Other Names</b>	MBD2
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

---

<b>Name</b>	MBD2 ( <a href="#">HGNC:6917</a> )
<b>Function</b>	<p>Binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides (PubMed:<a href="#">9774669</a>). Binds hemimethylated DNA as well (PubMed:<a href="#">10947852</a>, PubMed:<a href="#">24307175</a>). Recruits histone deacetylases and DNA methyltransferases to chromatin (PubMed:<a href="#">10471499</a>, PubMed:<a href="#">10947852</a>). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:<a href="#">16428440</a>, PubMed:<a href="#">28977666</a>). Acts as a transcriptional repressor and plays a role in gene silencing (PubMed:<a href="#">10471499</a>, PubMed:<a href="#">10947852</a>, PubMed:<a href="#">16415179</a>). Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression (PubMed:<a href="#">16415179</a>). May enhance the activation of some unmethylated cAMP-responsive promoters (PubMed:<a href="#">12665568</a>).</p>
<b>Cellular Location</b>	Nucleus. Chromosome Note=Nuclear, in discrete foci (PubMed:12183469).

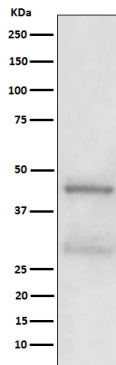
Detected at replication foci in late S phase. Localizes to methylated chromatin (PubMed:16428440). Localizes to sites of DNA damage in a manner partially dependent on ZMYND8 (PubMed:27732854)

#### Tissue Location

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

#### Images

---



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.