

# MBD2 Antibody

Rabbit mAb

Catalog # AP91620

## Product Information

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

## Additional Information

<b>Dilution</b>	WB 1:5000~1:10000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human MBD2
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	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.

## Protein Information

<b>Name</b>	MBD2 ( <a href="#">HGNC:6917</a> )
<b>Function</b>	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> ).
<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

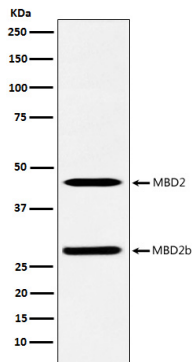
dependent on ZMYND8 (PubMed:27732854)

## Tissue Location

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

## Images

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Western blot analysis of MBD2 expression in A375 cell lysate.

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