

# MBD2 Rabbit mAb

Catalog # AP75695

## Product Information

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Application	WB, IHC-P, IHC-F, IP, ICC
Primary Accession	<a href="#">Q9UBB5</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	43255

## Additional Information

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Gene ID	8932
Other Names	MBD2
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A IP~~N/A ICC~~N/A
Format	Liquid

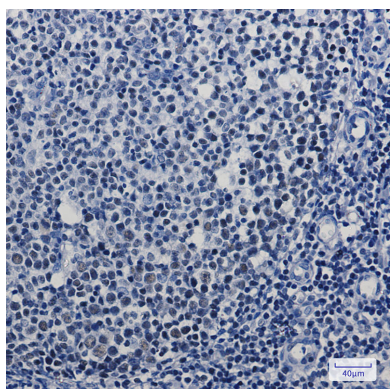
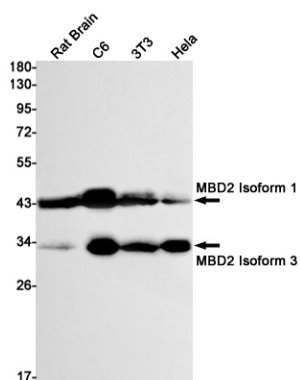
## Protein Information

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Name	MBD2 ( <a href="#">HGNC:6917</a> )
Function	<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>
Cellular Location	<p>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)</p>
Tissue Location	Highly expressed in brain, heart, kidney, stomach, testis and placenta.

## Images

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