

Anti-MBD2 Rabbit Monoclonal Antibody

Catalog # ABO15625

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	Q9UBB5
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.

Additional Information

Gene ID	8932
Other Names	Methyl-CpG-binding domain protein 2, Demethylase, DMTase, Methyl-CpG-binding protein MBD2, MBD2 (HGNC:6917)
Calculated MW	43255
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Source	Eukaryota
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.
Clone Names Immunogen	Clone: 22M01 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.

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). Binds hemimethylated DNA as well (PubMed: 10947852 , PubMed: 24307175).

Recruits histone deacetylases and DNA methyltransferases to chromatin (PubMed:[10471499](#), PubMed:[10947852](#)). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:[16428440](#), PubMed:[28977666](#)). Acts as a transcriptional repressor and plays a role in gene silencing (PubMed:[10471499](#), PubMed:[10947852](#), PubMed:[16415179](#)). Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression (PubMed:[16415179](#)). May enhance the activation of some unmethylated cAMP-responsive promoters (PubMed:[12665568](#)).

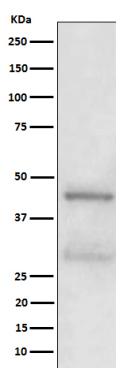
Cellular Location

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.

Images



Western blot analysis of MBD2 expression in A431 cell lysate.

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