

# KD-Validated Anti-Methyl-CpG Binding Domain Protein 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody  
Catalog # AGI1605

## Product Information

|                   |                                                                                                                                                                                                                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB, FC                                                                                                                                                                                                                                                                                                          |
| Primary Accession | <a href="#">Q9UIS9</a>                                                                                                                                                                                                                                                                                          |
| Reactivity        | Rat, Human                                                                                                                                                                                                                                                                                                      |
| Clonality         | Monoclonal                                                                                                                                                                                                                                                                                                      |
| Isotype           | Rabbit IgG                                                                                                                                                                                                                                                                                                      |
| Clone Names       | 24GB405                                                                                                                                                                                                                                                                                                         |
| Calculated MW     | 66607                                                                                                                                                                                                                                                                                                           |
| Gene Name         | MBD1                                                                                                                                                                                                                                                                                                            |
| Aliases           | MBD1; Methyl-CpG Binding Domain Protein 1; CXXC3; PCM1; Protein Containing Methyl-CpG-Binding Domain 1; Methyl-CpG-Binding Domain Protein 1; CXXC-Type Zinc Finger Protein 3; Protein Containing MBD 1; The Regulator Of Fibroblast Growth Factor 2 (FGF-2) Transcription; Methyl-CpG-Binding Protein MBD1; RFT |
| Immunogen         | A synthesized peptide derived from human MBD1                                                                                                                                                                                                                                                                   |

## Additional Information

|             |                                                                                                                                                                                                        |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID     | 4152                                                                                                                                                                                                   |
| Other Names | Methyl-CpG-binding domain protein 1, CXXC-type zinc finger protein 3, Methyl-CpG-binding protein MBD1, Protein containing methyl-CpG-binding domain 1, MBD1 ( <a href="#">HGNC:6916</a> ), CXXC3, PCM1 |

## Protein Information

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| Name              | MBD1 ( <a href="#">HGNC:6916</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Synonyms          | CXXC3, PCM1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Function          | Transcriptional repressor that binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binding is abolished by the presence of 7-mG that is produced by DNA damage by methylmethanesulfonate (MMS). Acts as transcriptional repressor and plays a role in gene silencing by recruiting ATF7IP, which in turn recruits factors such as the histone methyltransferase SETDB1. Probably forms a complex with SETDB1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Isoform 1 and isoform 2 can also repress transcription from unmethylated promoters. |
| Cellular Location | Nucleus. Nucleus matrix. Nucleus speckle Chromosome Note=Nuclear, in a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

punctate pattern (PubMed:12711603). Associated with euchromatic regions of the chromosomes, with pericentromeric regions on chromosome 1 and with telomeric regions from several chromosomes (PubMed:10454587, PubMed:10648624).

**Tissue Location**

Widely expressed..

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