

M30136

DNMT1 Antibody

- ☐ 50ul
- ☐ 100 uL



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Description:

Methylates CpG residues. Preferentially methylates hemimethylated DNA. Associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance. Associates with chromatin during G2 and M phases to maintain DNA methylation independently of replication. It is responsible for maintaining methylation patterns established in development. DNA methylation is coordinated with methylation of histones. Mediates transcriptional repression by direct binding to HDAC2. In association with DNMT3B and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9. Probably forms a corepressor complex required for activated KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor suppressor genes (TSGs) or other tumor-related genes in colorectal cancer (CRC) cells. Also required to maintain a transcriptionally repressive state of genes in undifferentiated embryonic stem cells (ESCs). Associates at promoter regions of tumor suppressor genes (TSGs) leading to their gene silencing. Promotes tumor growth.

Uniprot:P26358

Alternative Names:

ADCADN; AIM; CXXC finger protein 9; CXXC-type zinc finger protein 9; CXXC9; DNA (cytosine 5) methyltransferase 1; DNA (cytosine-5)-methyltransferase 1; DNA methyltransferase 1; DNA methyltransferase HsaI; DNA methyltransferase M.HsaI.; DNA MTase; DNA MTase HsaI; DNMT 1; DNMT; Dnmt1; DNMT1_HUMAN; Dnmt1o; FLJ16293; HSN1E; M.HsaI; MCMT; Met1; MGC104992; mMmul; Mommed2;

Reactivity:Human, Mouse, Rat

Source:Mouse

Mol Weight:183.15KD

Storage Condition: Store at -20 °C. Stable for 12 months from date of receipt.

Application:

WB 1:500-1:2000, IHC 1:50-1:200; IP 1:50-1:100