

DNMT1 antibody

Product Information

Catalog No.:	FNab10776
Size:	100μg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

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(PubMed:24623306). Also required to maintain a transcriptionally repressive state of genes in undifferentiated embryonic stem cells(ESCs)(PubMed:24623306). Associates at promoter regions of tumor suppressor genes(TSGs) leading to their gene silencing(PubMed:24623306). Promotes tumor growth(PubMed:24623306).

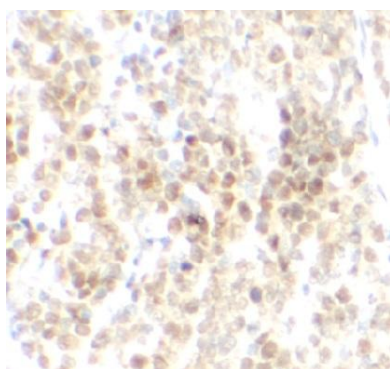
Immunogen information

Immunogen:	DNA(cytosine-5-)-methyltransferase 1
Synonyms:	DNA (cytosine-5)-methyltransferase 1 (Dnmt1) CXXC-type zinc finger protein 9 DNA methyltransferase HsaI (DNA MTase HsaI, M.HsaI) MCMT DNMT1 AIM CXXC9 DNMT

Observed MW: None
Uniprot ID : P26358

Application

Reactivity: Human
Tested Application: ELISA, IHC
Recommended dilution: IHC: 1:20-1:200
Image:



Immunohistochemistry of paraffin-embedded human stomach using FNab10776(DNMT1 antibody) at dilution of 1:100