

anti- DNMT1 antibody

Product Information

Catalog No.:	FNab02482
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

1

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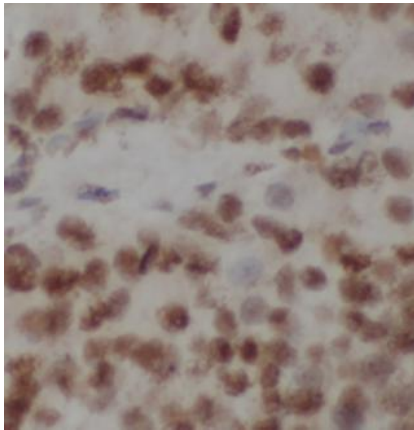
www.fn-test.com

Synonyms: AIM, CXXC9, DNA MTase HsaI, DNMT, DNMT1, MCMT
Observed MW: 180-200 kDa
Uniprot ID : P26358

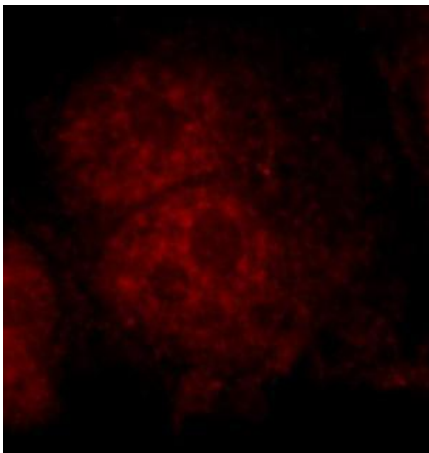
Application

Reactivity: Human, Mouse, Rat
Tested Application: ELISA, IHC, IP, WB, IF
Recommended dilution: WB: 1:500-1:2000; IP: 1:500-1:2000; IHC: 1:20-1:200; IF: 1:10-1:100

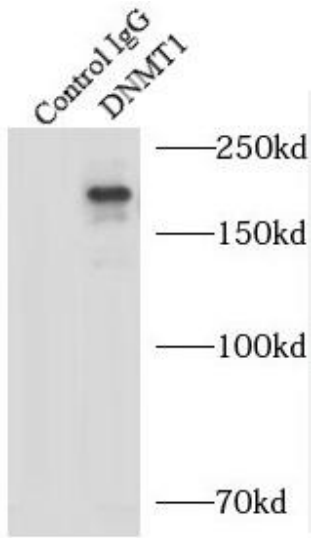
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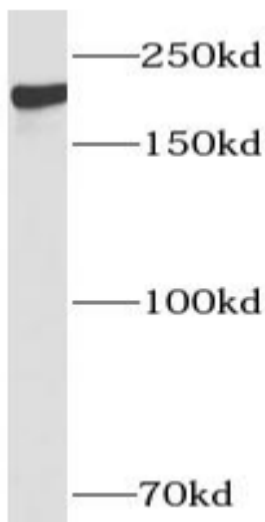
Immunohistochemistry of paraffin-embedded human breast cancer using FNab02482(DNMT1 antibody) at dilution of 1:100



Immunofluorescent analysis of HepG2 cells using FNab02482 (DNMT1 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG



IP Result of anti-DNMT1 (IP:FNab02482, 5ug;
Detection:FNab02482 1:500) with HEK-293 cells
lysate 2500ug.



293T cells were subjected to SDS PAGE followed
by western blot with FNab02482(DNMT1
antibody) at dilution of 1:1000