



Mouse Monoclonal Antibody **Dnmt1** conjugated to Sepharose Beads

CatalogNo: **ANT8362-M**

Size 200ul

Storage Store at 4 °C for frequent use

### Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

### **Dnmt1 (ANT0042R) Rabbit mAb**

Formulation: Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg ANaN3.

#### Host Species

- Rabbit

#### MW

- 183kD (Calculated)
- 183kD (Observed)

#### Reactivity

- Human,Mouse,Rat,

#### Isotype

- IgG,Kappa

#### Applications

- WB,IHC,IF,IP,ELISA

## Recommended Dilution Ratios

IP

### Basic Information

**Clonality**                      Monoclonal

**Clone Number**                ANT0042R

## Immunogen Information \

**Specificity** Endogenous

**Gene name** DNMT1 AIM CXXC9 DNMT

**Protein Name** DNA (cytosine-5)-methyltransferase 1 (Dnmt1) (EC 2.1.1.37) (CXXC-type zinc finger protein 9) (DNA methyltransferase Hsal) (DNA MTase Hsal) (M.Hsal) (MCMT)

Organism	Gene ID	UniProt ID
Human	<a href="#">1786;</a>	<a href="#">P26358;</a>
Mouse		<a href="#">P13864;</a>
Rat		<a href="#">Q9Z330;</a>

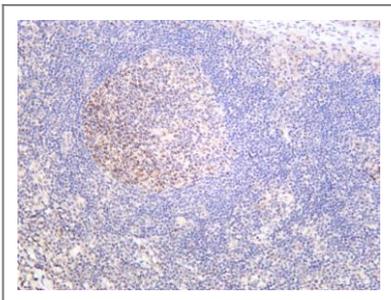
**Cellular Localization** Nucleus

**Tissue specificity** Ubiquitous; highly expressed in fetal tissues, heart, kidney, placenta, peripheral blood mononuclear cells, and expressed at lower levels in spleen, lung, brain, small intestine, colon, liver, and skeletal muscle. Isoform 2 is less expressed than isoform 1.

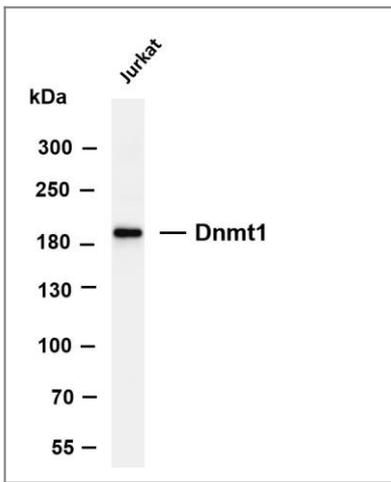
### Function

Catalytic activity:S-adenosyl-L-methionine + DNA = S-adenosyl-L-homocysteine + DNA containing 5-methylcytosine.,Function:Methylates CpG residues. Preferentially methylates hemimethylated DNA. 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.,induction:Its abundance is reduced to non detectable levels at the G0 phase of the cell cycle and is dramatically induced upon entrance into the S-phase of the cell cycle.,similarity:Belongs to the C5-methyltransferase family.,similarity:Contains 1 CXXC-type zinc finger.,similarity:Contains 2 BAH domains.,subunit:Interacts with HDAC1 and with PCNA. Forms a complex with DMAP1 and HDAC2, with direct interaction. Forms also a stable complex with E2F1, BB1 and HDAC1. Binds MBD2 and MBD3. Component of complexes containing SUV39H1. Interacts with DNMT3A and DNMT3B. Interacts with the PRC2/EED-EZH2 complex.,tissue specificity:Ubiquitous; highly expressed in fetal tissues, heart, kidney, placenta, peripheral blood mononuclear cells, and expressed at lower levels in spleen, lung, brain, small intestine, colon, liver, and skeletal muscle. Isoform 2 is less expressed than isoform 1.,

## Validation Data



Human tonsil was stained with anti-Dnmt1 (ANT0042R) rabbit antibody



Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-Dnmt1 (ANT0042R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Predicted band size: 183kDa Observed band size: 183kDa

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