

## 36-2170: Anti-DNMT1 / DNA Methyltransferase 1 Monoclonal Antibody(Clone: DNMT1/2061)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	DNMT1/2061
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	DNMT1
<b>Gene ID :</b>	1786
<b>Uniprot ID :</b>	P26358
<b>Alternative Name :</b>	ADCADN; AIM; CXXC-type zinc finger protein 9; CXXC9; DNA methyltransferase 1 (DNMT1); HSN1E; MCMT; Met1; MommeD2
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	Recombinant human DNMT1 protein fragment (around aa 767-912) (exact sequence is proprietary)

### Description

This gene encodes an enzyme that transfers methyl groups to cytosine nucleotides of genomic DNA. This protein is the major enzyme responsible for maintaining methylation patterns following DNA replication and shows a preference for hemimethylated DNA. Methylation of DNA is an important component of mammalian epigenetic gene regulation. Aberrant methylation patterns are found in human tumors and associated with developmental abnormalities. Variation in this gene has been associated with cerebellar ataxia, deafness, and narcolepsy, and neuropathy, hereditary sensory, type IE.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

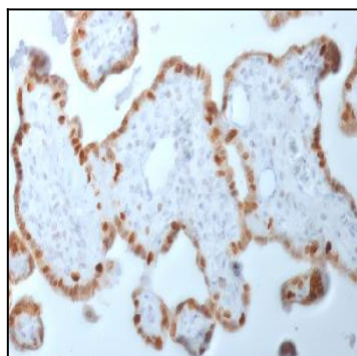


Fig. 1: Formalin-fixed, paraffin-embedded human Placenta stained with DNMT1 Mouse Monoclonal Antibody (DNMT1/2061).

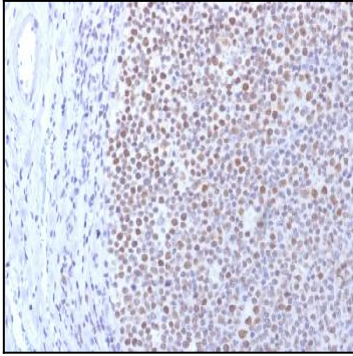


Fig. 2: Formalin-fixed, paraffin-embedded human Tonsil stained with DNMT1 Mouse Monoclonal Antibody (DNMT1/2061).

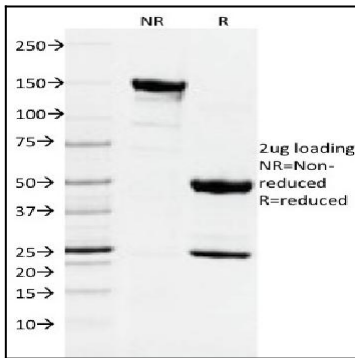


Fig. 3: SDS-PAGE Analysis Purified DNMT1 Mouse Monoclonal Antibody (DNMT1/2061). Confirmation of Integrity and Purity of Antibody.