

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

Clonality :	Monoclonal
Clone Name :	DNMT1/2061
Application :	IHC
Reactivity :	Human
Gene :	DNMT1
Gene ID :	1786
Uniprot ID :	P26358
Alternative Name :	ADCADN; AIM; CXXC-type zinc finger protein 9; CXXC9; DNA methyltransferase 1 (DNMT1); HSN1E; MCMT; Met1; MommeD2
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	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

Amount :	20 µg / 100 µg
Content :	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.
Storage condition :	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°C followed by cooling at RT for 20 minutes);

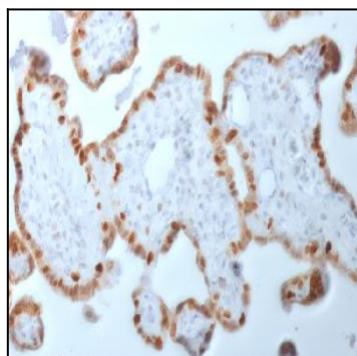


Fig. 1: Formalin-fixed, paraffin-embedded human Placenta stained with DNMT1 Mouse Monoclonal Antibody (DNMT1/2061).

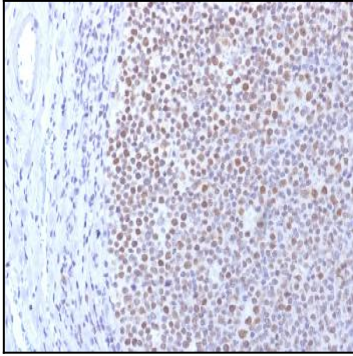


Fig. 2: Formalin-fixed, paraffin-embedded human Tonsil stained with DNMT1 Mouse Monoclonal Antibody (DNMT1/2061).

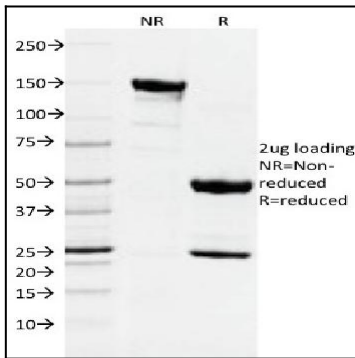


Fig. 3: SDS-PAGE Analysis Purified DNMT1 Mouse Monoclonal Antibody (DNMT1/2061). Confirmation of Integrity and Purity of Antibody.