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Product datasheet for TA326439

DNMT1 Mouse Monoclonal Antibody [Clone ID: 60B1220.1]

Product data:

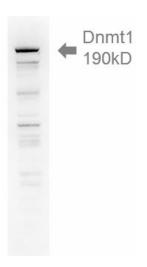
Product Type:	Primary Antibodies
Clone Name:	60B1220.1
Applications:	IHC, WB
Recommended Dilution:	WB: 2-4ug/ml, IHC: 1-2ug/ml
Reactivity:	Human, Mouse, Zebrafish
Host:	Mouse
lsotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Raised against a synthetic peptide corresponding to amino acids 637-650 of human DNMT1 (Gene
Formulation:	PBS, 0.05% BSA, 0.05% sodium azide
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DNA (cytosine-5-)-methyltransferase 1
Database Link:	<u>NP_001124295</u> <u>Entrez Gene 13433 MouseEntrez Gene 1786 Human</u> <u>P26358</u>



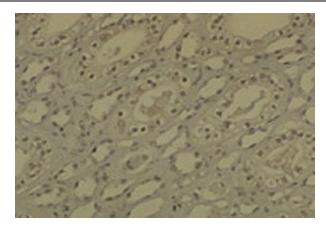
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	DNMT1 Mouse Monoclonal Antibody [Clone ID: 60B1220.1] – TA326439
Background:	Methylation of DNA at cytosine residues plays an important role in regulation of gene expression, genomic imprinting and is essential for mammalian development. Hypermethylation of CpG islands in tumor suppressor genes or hypomethylation of bulk genomic DNA may be linked with development of cancer. To date, 3 families of mammalian DNA methyltransferase genes have been identified which include Dnmt1, Dnmt2 and Dnmt3. Dnmt1 is constitutively expressed in proliferating cells and inactivation of this gene causes global demethylation of genomic DNA and embryonic lethality. Dnmt2 is expressed at low levels in adult tissues and its inactivation does not affect DNA methylation or maintenance of methylation. The Dnmt3 family members, Dnmt3a and Dnmt3b, are strongly expressed in ES cells but their expression is down regulated in differentiating ES cells and is low in adult somatic tissue. Dnmt1 co-purifies with the retinoblastoma (Rb) tumour suppressor gene product, E2F1, and HDAC1. Dnmt1 also cooperates with Rb to repress transcription from promoters containing E2F-binding sites suggesting a link between DNA methylation, histone deacetylase and sequence-specific DNA binding activity, as well as a growth-regulatory pathway that is disrupted in nearly all cancer cells .
Synonyms:	ADCADN; AIM; CXXC9; DNMT; HSN1E; m.Hsal; MCMT
Note:	It will cross-react with mouse DNMT1.
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways	: Cysteine and methionine metabolism, Metabolic pathways
Product imag	

Product images:



Western blot analysis of DNMT1 in H1299 lysate using a 1:1000 dilution of the antibody

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IHC analysis of DNMT1 in medullar kidney tissue sections using the antibody

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