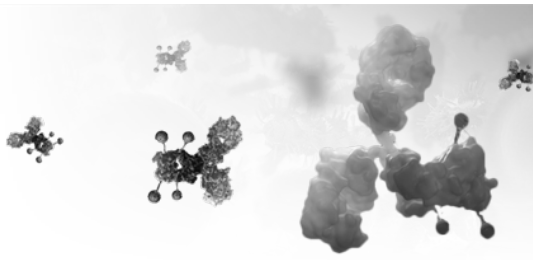

Anti-DNMT1 polyclonal antibody (DPABH-16160)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Specificity	Dnmt 1. Will recognize the splice isoforms B and C.
Immunogen	Synthetic peptide conjugated to KLH, corresponding to within the last 100 amino acids of Human Dnmt 1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein G purified
Conjugate	Unconjugated
Applications	ELISA, WB
Format	Liquid
Size	100 µg
Buffer	Constituents: PBS

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221
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Preservative	0.09% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	DNMT1 DNA (cytosine-5-)-methyltransferase 1 [Homo sapiens]
Official Symbol	Dnmt1
Synonyms	DNMT1; DNA (cytosine-5-)-methyltransferase 1; DNMT; DNA (cytosine-5)-methyltransferase 1; CXXC9; MCMT; m.HsaI; DNA MTase HsaI; CXXC finger protein 9; DNA methyltransferase 1; DNA methyltransferase HsaI; CXXC-type zinc finger protein 9; AIM; HSN1E; FLJ16293; MGC104992;
Entrez Gene ID	1786
Protein Refseq	NP_001124295
UniProt ID	I6L9H2
Chromosome Location	19p13.2
Pathway	Cysteine and methionine metabolism; Metabolic pathways; Methionine degradation; One Carbon Metabolism; Regulation of retinoblastoma protein;
Function	DNA (cytosine-5-)-methyltransferase activity; DNA binding; DNA-methyltransferase activity; metal ion binding; protein binding; transcription factor binding; transferase activity

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