

Rabbit anti-Human Dnmt1 Polyclonal Antibody | anti-DNMT1 antibody

Dnmt1 Antibody (C-term S1602)

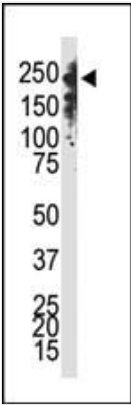
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285333	Rabbit	Human	Western Blot, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

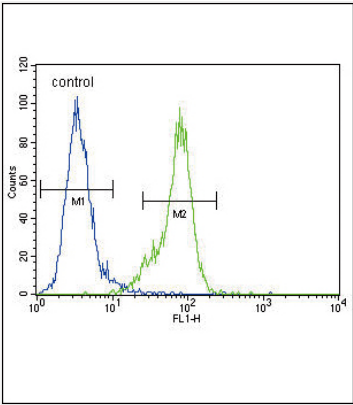
Dnmt1; Polyclonal Antibody; Dnmt1 Antibody (C-term S1602); DNA (cytosine-5)-methyltransferase 1; CXXC-type zinc finger protein 9; DNA methyltransferase Hsa1; DNA MTase Hsa1; MHsa1; MCMT; DNMT1; AIM; CXXC9; DNMT; anti-DNMT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Dnmt1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1588-1616 amino acids from the C-terminal region of human Dnmt1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	1588-1616
Sequence Length	1,280
Applicable Applications for anti-DNMT1 antibody	WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
The anti-Dnmt1 C-term Pab is used in Western blot to detect Dnmt1 in Jurkat cell lysate.



FCM/FACS (Flow Cytometry)
Dnmt1 Antibody (C-term S1602) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL INFORMATION

Related Product Information for anti-DNMT1 antibody	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.
References	Peterson, E.J., et al., Cancer Res. 63(20):6579-6582 (2003). Leu, Y.W., et al., Cancer Res. 63(19):6110-6115 (2003). Saito, Y., et al., Int. J. Cancer 105(4):527-532 (2003). Siedlecki, P., et al., Biochem. Biophys. Res. Commun. 306(2):558-563 (2003). Macaluso, M., et al., Oncogene 22(23):3511-3517 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	195927037
NCBI GeneID	1786
NCBI Accession #	NP_001124295.1; NP_001370.1
NCBI GenBank Nucleotide #	NM_001130823.1
UniProt Accession #	P26358; Q9UHG5; Q9ULA2; Q9UMZ6; A0AV63; B7ZLW6
Molecular Weight	183165
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 1 isoform a
NCBI Official Synonym Full Names	DNA (cytosine-5-)-methyltransferase 1
NCBI Official Symbol	DNMT1
NCBI Official Synonym Symbols	AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 1
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 1

UniProt Gene Name	DNMT1
UniProt Synonym Gene Names	AIM; CXXC9; DNMT; Dnmt1; DNA MTase Hsal; M.Hsal
UniProt Entry Name	DNMT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dnmt1-antibody-western-blot-flow-cytometry-elisa/285333>