

Rabbit anti-Human DNMT1 monomethyl Lys142 Polyclonal Antibody | anti-DNMT1 antibody

DNMT1 monomethyl Lys142 antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60037	Rabbit	Human	Western Blot

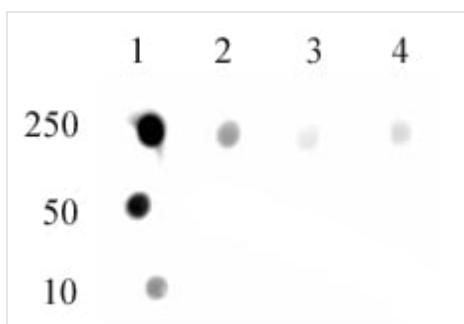
PRODUCT SYNONYMS

DNMT1 monomethyl Lys142; Polyclonal Antibody; DNMT1 monomethyl Lys142 antibody (pAb); AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN; anti-DNMT1 antibody

PRODUCT SPECIFICATIONS

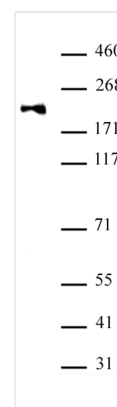
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-DNMT1 antibody	WB (Western Blot)
Conjugation	Methylated
Immunogen	This antibody was raised against a peptide including monomethyl lysine 142 of human DNMT1.
Abs Residue	Lys
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



DB (Dot Blot)

DNMT1 monomethyl Lys142 antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of DNMT1 monomethyl Lys142. Peptides corresponding to the immunogen and the unmodified version of the immunogen were spotted onto PVDF and probed with the antibody at 1:100,000. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: Monomethyl Lys142 peptide. Lane 2: Dimethyl lysine 142 peptide. Lane 3: Trimethyl lysine142 peptide. Lane 4: Unmodified lysine 142 peptide.



WB (Western Blot)

DNMT1 monomethyl Lys142 antibody (pAb) tested by Western blot. Nuclear extract of HeLa cells (40 ug) probed with DNMT1 monomethyl Lys142 antibody (1:500).

ADDITIONAL INFORMATION

Related Product Information for anti-DNMT1 antibody	Short Description: Our DNMT1 monomethyl Lys142 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Western blot; it has been shown to react with Human samples. Background: DNMT1 (DNA (Cytosine-5-)-Methyltransferase 1) 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. Methylation at lysine 142 by SETD7 promotes DNMT1 proteasomal degradation while phosphorylation of serine 143 via AKT blocks degradation. These modifications appear to play an important role in regulating DNMT enzyme activity and thus levels of DNA methylation.
Product Categories/Family for anti-DNMT1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	195927037
NCBI GeneID	1786
NCBI Accession #	NP_001124295; AB_2793659
NCBI GenBank Nucleotide #	NM_001130823
UniProt Accession #	P26358; Q9UHG5; Q9ULA2; Q9UMZ6; A0AV63; B7ZLW6
Molecular Weight	144,465 Da
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; DNA (cytosine-5)-methyltransferase 1; CXXC-type zinc finger protein 9; DNA MTase HsaI; DNA methyltransferase HsaI; m.HsaI
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 1
UniProt Gene Name	DNMT1
UniProt Synonym Gene Names	AIM; CXXC9; DNMT; Dnmt1; DNA MTase HsaI; M.HsaI
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-monomethyl-lys142-antibody-western-blot-elisa/60037>