

Datasheet: VPA00026

Description:	RABBIT ANTI DNA METHYLTRANSFERASE 1
Specificity:	DNA METHYLTRANSFERASE 1
Other names:	DNMT1
Format:	Purified
Product Type:	PrecisionAb™ Polyclonal
Isotype:	Polyclonal IgG
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Rabbit polyclonal antibody purified by affinity chromatography
Buffer Solution	TRIS-citrate/Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Synthetic peptide corresponding to a region within human DNMT1 encoded within exon 25
External Database Links	<p>UniProt: P26358 Related reagents</p> <p>Entrez Gene: 1786 DNMT1 Related reagents</p>
Synonyms	AIM, CXXC9, DNMT
Specificity	Rabbit anti Human DNA methyltransferase 1 antibody recognizes human DNA (cytosine-5)

methyltransferase 1, also known as DNMT1, CXXC-type zinc finger protein 9, MCMT or DNA methyltransferase Hsa1. DNA methyltransferase 1 is a 1616 amino acid member of the C5-methyltransferase family, bearing 2 [BAH](#) domains and single [CXXC-type zinc finger](#), [DMAP](#)-interaction and [SAM-dependent MTase C5-type](#) domains. The epitope recognized by Rabbit anti Human DNA methyltransferase 1 antibody maps to a region between residues 700 and 750 of human DNMT1.

DNMT1 is a nuclear enzyme with a major role in the maintenance of DNA methylation patterns after replication ([Song et al. 2012](#)). DNA methylation is significant for epigenetic regulation of gene expression, X chromosome inactivation, genomic imprinting, and development ([Lee et al. 2001](#)). Overexpression of DNMT1 has been detected in several human cancers ([Robertson et al. 1999](#)).

Rabbit anti Human DNA methyltransferase 1 antibody recognizes human DNA methyltransferase 1 as a band of ~180 kDa in multiple human cell lysates by western blotting under reducing conditions.

Western Blotting	Anti DNA Methyltransferase 1 antibody detects a band of approximately 180 kDa in HEK293 cell lysates.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Shelf Life	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10064 available at: Antibody (10064): https://www.bio-rad-antibodies.com/uploads/MSDS/10064.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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