

Datasheet: VPA00026

**BATCH NUMBER 151221**

<b>Description:</b>	RABBIT ANTI DNA METHYLTRANSFERASE 1
<b>Specificity:</b>	DNA METHYLTRANSFERASE 1
<b>Other names:</b>	DNMT1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

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

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** 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 dependent on sample type.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Rabbit polyclonal antibody purified by affinity chromatography
<b>Buffer Solution</b>	TRIS-citrate/Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Synthetic peptide corresponding to a region within human DNMT1 encoded within exon 25

**External Database  
Links**

**UniProt:**

[P26358](#)    [Related reagents](#)

**Entrez Gene:**

[1786](#)    DNMT1    [Related reagents](#)

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**Synonyms**

AIM, CXXC9, DNMT

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**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.

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**Western Blotting**

Anti DNA Methyltransferase 1 antibody detects a band of approximately 180 kDa in HEK293 cell lysates.

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**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10064 available at: <https://www.bio-rad-antibodies.com/SDS/VPA00026>  
Antibody (10064)

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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