

## Datasheet: VPA00026

<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>Immunogen</b>	Synthetic peptide corresponding to a region within human DNMT1 encoded within exon 25
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P26358</a> <a href="#">Related reagents</a>

**Entrez Gene:**[1786](#) DNMT1 [Related reagents](#)

---

**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.

---

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

---

**Guarantee** 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](#)**North & South** Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)

'M377158:210212'

