

Datasheet: VPA00026KT

Description:	DNA METHYLTRANSFERASE 1 ANTIBODY WITH CONTROL LYSATE
Specificity:	DNA METHYLTRANSFERASE 1
Other names:	DNMT1
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	2 Westerns

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	20µl 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	UniProt: P26358 Related reagents

Entrez Gene:

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

Synonyms	AIM, CXXC9, DNMT
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Specificity	<p>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.</p> <p>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).</p> <p>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.</p>
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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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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.
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Lysate Composition	400µg HEK293 lysate lyophilized in RIPA buffer.
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Lysate Reconstitution	<ul style="list-style-type: none">- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
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Storage	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
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Guarantee	As supplied, 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 #10561 available at:
Antibody (10064): <https://www.bio-rad-antibodies.com/uploads/MSDS/10064.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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