

Datasheet: VMA00245KT

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| Description: | DNA METHYLTRANSFERASE 1 ANTIBODY WITH CONTROL LYSATE |
| Specificity: | DNA METHYLTRANSFERASE 1 |
| Format: | Purified |
| Product Type: | PrecisionAb Monoclonal |
| Isotype: | IgG1 |
| 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.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | 20µl Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) |
| Immunogen | Recombinant protein corresponding to amino acids 1448-1594 of human DNA methyltransferase 1 expressed in <i>E. coli</i> |
| 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 | <p>Mouse anti Human DNA methyltransferase 1 antibody recognizes the DNA (cytosine-5)-methyltransferase 1 , also known as Dnmt1, CXXC-type zinc finger protein 9, DNA methyltransferase Hsa1, DNA MTase Hsa1 or M.Hsa1 MCMT.</p> <p>DNA (cytosine-5-)-methyltransferase 1 has a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues. Aberrant methylation patterns are associated with certain human tumors and developmental abnormalities. Two transcript variants encoding different isoforms have been found for DNMT1 (provided by RefSeq, Aug 2008).</p> <p>Mouse anti Human DNA methyltransferase 1 antibody detects a band of 180 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p> |
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| Western Blotting | Anti DNA methyltransferase 1 detects a band of approximately 205 kDa in Jurkat 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 Jurkat lysate lyophilized in RIPA buffer. |
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| Lysate Reconstitution | <p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <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 | <p>Material Safety Datasheet documentation #10040 #10561 available at:</p> <p>Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</p> <p>Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</p> |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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