

## Datasheet: VMA00426

<b>Description:</b>	MOUSE ANTI MGMT
<b>Specificity:</b>	MGMT
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb™ Monoclonal
<b>Clone:</b>	UMAB56
<b>Isotype:</b>	IgG1
<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

**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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Full length recombinant human MGMT (NP_002403) produced in <i>E.coli</i>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P16455</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4255</a>    MGMT    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<b>Mouse anti Human MGMT antibody</b> recognizes methylguanine-DNA methyltransferase (MGMT), also known as 6-O-methylguanine-DNA methyltransferase, O-6-methylguanine-

DNA-alkyltransferase and methylated-DNA--protein-cysteine methyltransferase.

Alkylating agents are potent carcinogens that can result in cell death, mutation and cancer. The protein encoded by the MGMT gene is a DNA repair protein that is involved in cellular defense against mutagenesis and toxicity from alkylating agents. The protein catalyzes transfer of methyl groups from O(6)-alkylguanine and other methylated moieties of the DNA to its own molecule, which repairs the toxic lesions. Methylation of the promoter has been associated with several cancer types, including colorectal cancer, lung cancer, lymphoma and glioblastoma (provided by RefSeq, Sep 2015).

Mouse anti Human MGMT antibody detects a band of 23 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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<b>Western Blotting</b>	Anti MGMT detects a band of approximately 23 kDa in Jurkat cell lysates
<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Shelf Life</b>	As supplied, 12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10048 available at: Antibody (10048): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf</a>
<b>Regulatory</b>	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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