

Datasheet: VMA00426

BATCH NUMBER 160322

Description:	MOUSE ANTI MGMT
Specificity:	MGMT
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	UMAB56
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	Full length recombinant human MGMT (NP_002403) produced in <i>E.coli</i>

**External Database
Links**

UniProt:

[P16455](#) [Related reagents](#)

Entrez Gene:

[4255](#) MGMT [Related reagents](#)

Specificity

Mouse anti Human MGMT antibody, clone UMAB56 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, clone UMAB56 detects a band of 23 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti MGMT detects a band of approximately 23 kDa in Jurkat 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 #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00426>
Antibody (10048)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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