

Datasheet: VMA00426KT

Description:	MGMT ANTIBODY WITH CONTROL LYSATE
Specificity:	MGMT
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	UMAB56
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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	20µl 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	<p>UniProt: P16455 Related reagents</p> <p>Entrez Gene: 4255 MGMT Related reagents</p>
Specificity	Mouse anti Human MGMT antibody 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.

Western Blotting	Anti MGMT detects a band of approximately 23 kDa in Jurkat cell lysates
-------------------------	---

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.
-----------------------------	---

Lysate Composition	400µg Jurkat lysate lyophilized in RIPA buffer
---------------------------	--

Lysate Reconstitution	- If using DDT reconstitute the lyophilized lysate with 190µl DI H ₂ O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT. - If using BME reconstitute the lyophilized lysate with 180µl DI H ₂ O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. 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.
------------------------------	---

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

Shelf Life	As supplied, 12 months from date of despatch
-------------------	--

Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories
-------------------------	---

Health And Safety Information	Material Safety Datasheet documentation #10048 #10561 available at: Antibody (10048): https://www.bio-rad-antibodies.com/uploads/MSDS/10048.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 Mouse IgG (H/L) (STAR207...)[HRP](#)

Recommended Negative Controls

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

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50

'M337661:181217'

Printed on 02 Jan 2019
