

Datasheet: VMA00677

Description:	MOUSE ANTI TOPOISOMERASE II ALPHA
Specificity:	TOPOISOMERASE II ALPHA
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	G02/3H11
Isotype:	IgG2b
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 affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1174-1531 of human topoisomerase II alpha

External Database Links

UniProt:
[P11388](#) [Related reagents](#)

Entrez Gene:[7153](#) TOP2A [Related reagents](#)

Synonyms	TOP2
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Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
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Specificity	<p>Mouse anti Human topoisomerase II alpha antibody recognizes DNA topoisomerase II alpha, also known as DNA gyrase, TOP2A and DNA topoisomerase ATP-hydrolyzing.</p> <p>TOP2A encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in TOP2A have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia (provided by RefSeq, Jul 2010).</p> <p>Mouse anti Human topoisomerase II alpha antibody detects a band of 191 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
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Western Blotting	Mouse anti topoisomerase II alpha detects a band of approximately 191 kDa in HEK293 cell lysates
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Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
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Guarantee	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 #10040 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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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 IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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To
find a

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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