

Datasheet: VMA00674

BATCH NUMBER 172841

Description:	MOUSE ANTI TOPOISOMERASE II ALPHA
Specificity:	TOPOISOMERASE II ALPHA
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	ABM48B4
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. Learn about [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 on Protein G from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline.
Preservative	0.05% Sodium Azide (NaN ₃)
Stabilisers	0.05% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.
Immunogen	Recombinant protein human topoisomerase II alpha protein (aa 1326-1512)

**External Database
Links**

UniProt:

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

Entrez Gene:

[7153](#) TOP2A [Related reagents](#)

Synonyms

TOP2

Specificity

Mouse anti Human topoisomerase II alpha antibody recognizes topoisomerase II alpha, also known as DNA gyrase, DNA topoisomerase (ATP-hydrolyzing) or DNA topoisomerase II alpha isozyme.

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).

Mouse anti Human topoisomerase II alpha antibody detects a band of 190 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Mouse anti topoisomerase II alpha antibody detects a band of approximately 190 kDa in Raji cell lysates.

Storage

This product is shipped at ambient temperature.
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 #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00674>

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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