

## Datasheet: VMA00674

<b>Description:</b>	MOUSE ANTI TOPOISOMERASE II ALPHA
<b>Specificity:</b>	TOPOISOMERASE II ALPHA
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	IgG2b
<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

**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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
<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
<b>Immunogen</b>	Recombinant protein human topoisomerase II alpha protein (aa 1326-1512)
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P11388</a> <a href="#">Related reagents</a>

**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**

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: Antibody (10041): <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

**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 \(MCA691\)](#)

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

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