

## Datasheet: VMA00940

<b>Description:</b>	MOUSE ANTI TOPBP1
<b>Specificity:</b>	TOPBP1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	E03/6C8
<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
Immunoprecipitation	▪			
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

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - Liquid

### Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** *E. coli*-derived recombinant protein of amino acids 1097-1522 of human TOPBP1

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## External Database Links

### UniProt:

[Q92547](#)

[Related reagents](#)

### Entrez Gene:

[11073](#)

TOPBP1

[Related reagents](#)

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**Synonyms** KIAA0259

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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** **Mouse anti TOPBP1 antibody** recognizes DNA topoisomerase 2-binding protein 1 (TOPBP1). TOPBP1 is a large, non-enzymatic scaffold protein that plays essential roles in many cellular processes including DNA repair, replication, and transcription. The nine BRCT domains of TOPBP1 allow TOPBP1 to bind to numerous interacting proteins ([Moudry et al. 2016](#)). TOPBP1 mediates the response to DNA damage through binding to MDC1. This binding allows TOPBP1 recruitment to double-strand breaks (DSBs) in mitosis ([Leimbacher et al. 2019](#)). The role of TOPBP1 in DNA processing during mitosis is important for genome integrity, preventing DNA damage from being passed to daughter cells ([Gallina et al. 2016](#)). Due to its role in genome integrity, it is unsurprising that dysregulation of TOPBP1 has been identified in cancer. For example, TOPBP1 has been found to be elevated in a range of sarcoma types. In osteosarcoma, TOPBP1 appears to contribute to cancer cell survival and chemoresistance to doxorubicin and cisplatin ([Wu et al. 2017](#)). In non-small cell lung cancer, TOPBP1 contributes to chemoresistance by upregulating the transcription factor p53 ([Lv et al. 2016](#)).

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**Western Blotting** Mouse anti TOPBP1 detects a band of approximately 198 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](https://bio-rad-antibodies.com/datasheets)

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