

Datasheet: VMA00940

BATCH NUMBER 64647190

Description:	MOUSE ANTI TOPBP1
Specificity:	TOPBP1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	E03/6C8
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
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 Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1097-1522 of human TOPBP1
External Database Links	<p>UniProt: Q92547 Related reagents</p> <p>Entrez Gene: 11073 TOPBP1 Related reagents</p>
Synonyms	KIAA0259
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>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).</p>
Western Blotting	Mouse anti TOPBP1 detects a band of approximately 198 kDa in HEK293 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00940
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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
'M429317:240410'

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