

Datasheet: VMA00785

Description:	MOUSE ANTI BUB3
Specificity:	BUB3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB03/4E7-5
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

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 1-328 of human BUB3
External Database Links	<p>UniProt: O43684 Related reagents</p> <p>Entrez Gene: 9184 BUB3 Related reagents</p>
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 BUB3 antibody recognizes mitotic checkpoint protein BUB3.</p> <p>BUB3 is a constitutively-expressed protein that acts as a mitotic checkpoint protein in the nucleus (Ersv�er et al. 2020). BUB3 is one of the core components of the mitotic surveillance mechanism spindle assembly cell cycle checkpoint (SAC), alongside BUB1. This checkpoint prevents onset of anaphase until all chromosomes have been correctly attached to microtubules during the cell cycle (Li et al. 2018). Cells lacking BUB3 have an increased rate of chromosome mis-segregation, leading to aneuploidy, and furthermore to cell cycle delay or death (Yang and Lacefield 2016). Dysregulation of mitotic checkpoint genes can lead to cancer, and cytoplasmic expression of BUB3 has been found to be significantly correlated with recurrence. BUB3 has been suggested as a prognostic marker in prostate cancer (Ersv�er et al. 2020).</p>
Western Blotting	Mouse BUB3 antibody detects a band of approximately 38 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: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.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

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