

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
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

Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

E. coli-derived recombinant protein of amino acids 1-328 of human BUB3

External Database Links

UniProt:

[O43684](#)

[Related reagents](#)

Entrez Gene:

[9184](#)

BUB3

[Related reagents](#)

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti BUB3 antibody recognizes mitotic checkpoint protein BUB3.

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](#)).

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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M394644:220215'

Printed on 21 Mar 2022

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