

Datasheet: VMA00702

BATCH NUMBER 100004122

Description:	MOUSE ANTI EB1
Specificity:	EB1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB03/4B6
Isotype:	IgG1
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 - 1/2000

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	<p>Reacts with: Mouse, Rat</p> <p>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.</p>
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 1-268 of human EB1
External Database Links	<p>UniProt: Q15691 Related reagents</p> <p>Entrez Gene: 22919 MAPRE1 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 Human EB1 antibody recognizes the APC-binding protein EB1, also known as adenomatous polyposis coli-binding protein EB1, end-binding protein 1 and microtubule-associated protein RP/EB family member 1.</p> <p>EB1 is a highly conserved, important regulator of microtubule dynamics which stabilizes and stimulates growth at the plus-end of microtubules (Jayatilaka et al. 2018). The protein consists of two functional domains: the N-terminal CH domain recognizes the growing ends of microtubules, while the C-terminal EBH domain recruits microtubule plus-end tracking proteins (+TIPs) (van Haren et al. 2018) which also regulate microtubule dynamics and functions. Interaction between EB1 and +TIPs appears to depend on post-translational modifications of EB1. For example, phosphorylation of EB1, mediated by ASK1, contributes to the ability of EB1 to track plus-ends of microtubules (Ran et al. 2017). ASK1 promotes proliferation of pancreatic cancer cells, and EB1 phosphorylation has been found to mediate the function of ASK1 and contribute to pancreatic cancer development (Gao et al. 2017). EB1 overexpression has been identified in early stages of oral cancer (Kumar et al. 2016) and colorectal cancer (Stypula-Cyrus et al. 2014).</p>
Western Blotting	Mouse anti EB1 detects a band of approximately 31 kDa in HeLa 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/VMA00702 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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

'M390010:210818'

Printed on 13 Aug 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)