

Datasheet: VMA00702

**BATCH NUMBER 100004122**

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

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

<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-268 of human EB1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q15691</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">22919</a>    MAPRE1    <a href="#">Related reagents</a></p>
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Human EB1 antibody</b> 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 (<a href="#">Jayatilaka et al. 2018</a>). 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) (<a href="#">van Haren et al. 2018</a>) 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 (<a href="#">Ran et al. 2017</a>). 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 (<a href="#">Gao et al. 2017</a>). EB1 overexpression has been identified in early stages of oral cancer (Kumar et al. 2016) and colorectal cancer (<a href="#">Stypula-Cyrus et al. 2014</a>).</p>
<b>Western Blotting</b>	Mouse anti EB1 detects a band of approximately 31 kDa in HeLa cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

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

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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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