

## Datasheet: VMA00702

<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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</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.
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide

## Stabilisers

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### Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

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### Immunogen

*E. coli*-derived recombinant protein of amino acids 1-268 of human EB1

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### External Database Links

#### UniProt:

[Q15691](#)

[Related reagents](#)

#### Entrez Gene:

[22919](#)

MAPRE1

[Related reagents](#)

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### Fusion Partners

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

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### Specificity

**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.

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](#)).

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### Western Blotting

Mouse anti EB1 detects a band of approximately 31 kDa in HeLa cell lysates

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### Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

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### Guarantee

12 months from date of despatch

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### Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories

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### Health And Safety Information

Material Safety Datasheet documentation #10040 available at:  
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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### Regulatory

For research purposes only

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## Related Products

## Recommended Secondary Antibodies

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

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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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