

## Datasheet: VMA00856

<b>Description:</b>	MOUSE ANTI EEF2
<b>Specificity:</b>	EEF2
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB02/1A11
<b>Isotype:</b>	IgG2b
<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
Western Blotting	▪			1/1000
Immunofluorescence	▪			

**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 300-858 of human EEF2

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## External Database Links

### UniProt:

[P13639](#)    [Related reagents](#)

### Entrez Gene:

[1938](#)    EEF2    [Related reagents](#)

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**Synonyms** EF2

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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 EEF2 antibody** recognizes eukaryotic elongation factor 2, also known as EF2.

EEF2 plays a key role in protein synthesis, mediating the translocation step of elongation by catalyzing tRNA movement via GTP hydrolysis. When phosphorylated at Thr56, protein synthesis is disrupted, and cells use this mechanism to control translation under multiple biological conditions including cell cycle progression ([Oji et al. 2014](#)). Abnormal phosphorylation of EEF2 appears to occur in Alzheimer's Disease ([Beckelman et al. 2019](#)). EEF2 is a regulator of cardiomyocyte apoptosis during myocardial ischemia reperfusion, which happens after myocardial infarction and leads to gradual development of heart failure ([Zhang et al. 2017](#)). EEF2 is highly involved in regulation of cancer metastasis, and EEF2 expression in cells has been found to increase cancer cell migration and invasion capabilities ([Cheng et al. 2018](#)). In addition, EEF2 may be involved with promoting cell survival under conditions of starvation, hypoxia, or metabolic stress ([Wang et al. 2019](#)).

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**Western Blotting** Mouse anti EEF2 antibody detects a band of approximately 94 kDa in HEK293 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: <https://www.bio-rad-antibodies.com/SDS/VMA00856>  
Antibody (10040)

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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 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](https://bio-rad-antibodies.com/datasheets)

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