

## Datasheet: VMA00853

<b>Description:</b>	MOUSE ANTI EMD
<b>Specificity:</b>	EMD
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB01/4H6
<b>Isotype:</b>	IgG2a
<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

**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>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 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 1-254 of human EMD

**External Database  
Links**

**UniProt:**

[P50402](#)    [Related reagents](#)

**Entrez Gene:**

[2010](#)    EMD    [Related reagents](#)

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**Synonyms**

EDMD, STA

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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 EMD antibody** recognizes emerin, also known as EDMD, STA.

EMD is a ubiquitous inner nuclear membrane protein that contributes to genome organization, regulation of gene expression, and mechanical stress signaling ([Essawy et al. 2019](#)). However, the protein can also be found in outer membranes during interphase within mitosis (Dubińska-Magiera et al. 2019). Deregulation of EMD can play a role in malignant transformation, and the localization of emerin can be used to identify tumor cells that have nuclear shape instability ([Reis-Sobreiro et al. 2018](#)). Mutations in the EMD gene, most often leading to an absence of EMD, cause X-linked Emery-Dreifuss muscular dystrophy (X-EDMD) ([Essawy et al. 2019](#)). This disease is characterized by contractures of the elbow and Achilles tendons, progressive muscle wasting and cardiac conduction defects ([Dubińska-Magiera et al. 2019](#)).

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**Western Blotting**

Mouse anti EMD antibody detects a band of approximately 31 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:  
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 IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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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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