

Datasheet: VMA00853

**BATCH NUMBER 100004560**

<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
Immunoprecipitation	▪			
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

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P50402</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">2010</a> EMD <a href="#">Related reagents</a>
<b>Synonyms</b>	EDMD, STA
<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 EMD antibody</b> recognizes emerin, also known as EDMD, STA.</p> <p>EMD is a ubiquitous inner nuclear membrane protein that contributes to genome organization, regulation of gene expression, and mechanical stress signaling (<a href="#">Essawy et al. 2019</a>). 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 (<a href="#">Reis-Sobreiro et al. 2018</a>). Mutations in the EMD gene, most often leading to an absence of EMD, cause X-linked Emery-Dreifuss muscular dystrophy (X-EDMD) (<a href="#">Essawy et al. 2019</a>). This disease is characterized by contractures of the elbow and Achilles tendons, progressive muscle wasting and cardiac conduction defects (<a href="#">Dubińska-Magiera et al. 2019</a>).</p>
<b>Western Blotting</b>	Mouse anti EMD antibody detects a band of approximately 31 kDa in HEK293 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: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00853">https://www.bio-rad-antibodies.com/SDS/VMA00853</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

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

