

Datasheet: VMA00895

**BATCH NUMBER 64595330**

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI VINCULIN    |
| <b>Specificity:</b>  | VINCULIN               |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | PrecisionAb Monoclonal |
| <b>Clone:</b>        | F01/4H8                |
| <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             |

**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 1-1135 of human vinculin  |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P18206</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">7414</a>    VCL    <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 vinculin antibody</b> recognizes vinculin, also known as metavinculin.</p> <p>Vinculin is a non-enzymatic, cytoplasmic, actin-binding protein that regulates adhesion by stimulating actin polymerization and recruiting actin remodeling proteins. Cell-matrix and cell-cell adhesion are dramatically impaired in the absence of vinculin, revealing its essential role (<a href="#">Bays and DeMali 2017</a>). Vinculin can regulate cell migration, a process determined by cell adhesion and the turnover of focal adhesions. The protein is also required for maintaining integrity of glomerular barriers in the kidney (<a href="#">Lausecker et al. 2018</a>). Downregulation of vinculin has been identified in metastatic cancer cells, and loss of vinculin appears to protect cells from apoptosis (<a href="#">Gao et al. 2017</a>). Therefore, vinculin appears to act as a tumor suppressor and affects tumorigenesis, metastasis, and invasion. In non-small cell lung cancer, vinculin expression is inhibited and this promotes malignancy (<a href="#">Yu et al. 2020</a>).</p> |
| <b>Western Blotting</b>               | Mouse anti vinculin antibody detects a band of approximately 130 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/VMA00895">https://www.bio-rad-antibodies.com/SDS/VMA00895</a><br>Antibody (10040)   |
| <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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