

Datasheet: VMA00895

Description:	MOUSE ANTI VINCULIN
Specificity:	VINCULIN
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	F01/4H8
Isotype:	IgG1
Quantity:	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.

	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

Preservative

0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-1135 of human vinculin

External Database Links

UniProt:
[P18206](#) [Related reagents](#)

Entrez Gene:
[7414](#) VCL [Related reagents](#)

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

Specificity **Mouse anti vinculin antibody** recognizes vinculin, also known as metavinculin.

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 ([Bays and DeMali 2017](#)). 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 ([Lausecker et al. 2018](#)). Downregulation of vinculin has been identified in metastatic cancer cells, and loss of vinculin appears to protect cells from apoptosis ([Gao et al. 2017](#)). 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 ([Yu et al. 2020](#)).

Western Blotting Mouse anti vinculin antibody detects a band of approximately 130 kDa in HEK293 cell lysates

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

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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

'M394717:220215'

Printed on 07 Feb 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)