

Datasheet: VMA00895

BATCH NUMBER 100006534

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 Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-1135 of human vinculin
External Database Links	<p>UniProt: P18206 Related reagents</p> <p>Entrez Gene: 7414 VCL Related reagents</p>
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti vinculin antibody 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 (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).</p>
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 \(MCA928\)](#)

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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

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