

Datasheet: VMA00925

Description:	MOUSE ANTI ACTR3
Specificity:	ACTR3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD04/3B4
Isotype:	IgG2b
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
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 1-418 of human ACTR3
External Database Links	<p>UniProt: P61158 Related reagents</p> <p>Entrez Gene: 10096 ACTR3 Related reagents</p>
Synonyms	ARP3
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 ACTR3 antibody recognizes actin-related protein 3, also known as ARP3.</p> <p>ACTR3 forms part of the ARP2/3 complex which initiates polymerization of actin filaments in the cytoskeleton, necessary for motility and maintenance of cell morphology (Vartiainen and Machesky 2004). In the nucleus, the ARP2/3 complex binds nuclear actin and contributes to gene expression and DNA repair (Hurst et al. 2019). Knockdown suggests that ACTR3 could be a molecular target for treating ulcerative colitis (Zhang et al. 2019). ACTR3 is dramatically overexpressed in several cancer cell types and tissues, and could be a biomarker in hepatocellular carcinoma (Lv et al. 2018) and breast cancers (Liu et al. 2017).</p>
Western Blotting	Mouse anti ACTR3 detects a band of approximately 45 kDa in HeLa 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: https://www.bio-rad-antibodies.com/SDS/VMA00925 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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

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