

Datasheet: VMA00894

Description:	MOUSE ANTI ACTR2
Specificity:	ACTR2
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD01/1A6
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 1-394 of human ACTR2
External Database Links	<p>UniProt: P61160 Related reagents</p> <p>Entrez Gene: 10097 ACTR2 Related reagents</p>
Synonyms	ARP2
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 ACTR2 antibody recognizes actin-related protein 2, also known as ARP2.</p> <p>Arp2 and Arp3 are part of the Arp2/3 complex, a multiprotein complex capable of generating branched actin networks. Actin cytoskeleton branching is essential for efficient cell migration, and silencing almost any subunit of the Arp2/3 complex has been shown to lead to a significant decrease in cell migratory capability (Rauhala et al. 2013). When activated, Arp2 and Arp3 are brought together within the complex. The active complex cross-links polymerizing actin filaments and exerts a pushing force (Molinie and Gautreau 2018). Phosphorylation of Arp2 by NIK is required for the activity of the Arp2/3 complex (LeClaire et al. 2015).</p>
Western Blotting	Mouse anti ACTR2 antibody detects a band of approximately 40 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/VMA00894 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 \(MCA691\)](#)

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

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