

Datasheet: VMA00894

BATCH NUMBER 100004237

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	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-394 of human ACTR2

External Database Links

UniProt:
[P61160](#) [Related reagents](#)

Entrez Gene:
[10097](#) ACTR2 [Related reagents](#)

Synonyms ARP2

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

Specificity **Mouse anti ACTR2 antibody** recognizes actin-related protein 2, also known as ARP2.

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](#)).

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](#)

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

'M375114:201216'

Printed on 25 Mar 2023

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