

Datasheet: VMA00925

BATCH NUMBER 100005624

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	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-418 of human ACTR3

External Database Links

UniProt:

[P61158](#) [Related reagents](#)

Entrez Gene:

[10096](#) ACTR3 [Related reagents](#)

Synonyms ARP3

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

Specificity **Mouse anti ACTR3 antibody** recognizes actin-related protein 3, also known as ARP3.

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 studies suggest 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](#)).

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](#)

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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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