

Datasheet: VMA00901

Description:	MOUSE ANTI ACTININ-1
Specificity:	ACTININ-1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	rAB01-3G11
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

Recombinant IgG prepared by affinity chromatography on Protein A from cell culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide (NaN₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-499 of human actinin-1

External Database Links

UniProt:
[P12814](#) [Related reagents](#)

Entrez Gene:
[87](#) ACTN1 [Related reagents](#)

Specificity **Mouse anti actinin-1 antibody** recognizes alpha-actinin-1, also known as ACTN1.

Actinin-1 is a cytoskeletal protein that binds actin in multiple cell types and cytoskeleton frameworks. Actinin-1 is located along the actin filaments and in adhesion sites in non-muscle cells, and at the Z-disk and analogous dense bodies in striated, cardiac and smooth muscle cells. The protein is important for organization of the cytoskeleton and for muscle contraction ([Sjöblom et al. 2008](#)), as well as cell adhesion and migration. Mutations in the gene encoding actinin-1 lead to the platelet disorder macrothrombocytopenia, associated with excessive bleeding ([Murphy and Young 2015](#)). In breast cancer patients, increased expression of actinin-1 has been identified and associates with poor prognosis in basal-like subtypes. It has been suggested as a potential prognostic biomarker in basal-like breast cancer ([Kovac et al. 2018](#)).

Western Blotting Mouse anti actinin-1 antibody detects a band of approximately 105 kDa in HeLa cell lysates

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee As supplied, 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: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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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
'M378310:210217'

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