

Datasheet: VMA00901

BATCH NUMBER 100005040

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 Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> --derived recombinant protein of amino acids 1-499 of human actinin-1
External Database Links	<p>UniProt: P12814 Related reagents</p> <p>Entrez Gene: 87 ACTN1 Related reagents</p>
Specificity	<p>Mouse anti actinin-1 antibody recognizes alpha-actinin-1, also known as ACTN1.</p> <p>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).</p>
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: https://www.bio-rad-antibodies.com/SDS/VMA00901 10040
Regulatory	For research purposes only

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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](https://www.bio-rad-antibodies.com/datasheets)

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