

Datasheet: VMA00931

Description:	MOUSE ANTI ARF1
Specificity:	ARF1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	E01/8D1
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 1-181 of human ARF1
External Database Links	<p>UniProt: P84077 Related reagents</p> <p>Entrez Gene: 375 ARF1 Related reagents</p>
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 ARF1 antibody recognizes ADP-ribosylation factor 1.</p> <p>ARF1 is a small GTPase which cycles between an inactive, GDP-bound state and an active, GTP-bound state. When active, ARF1 can tightly bind effectors and this binding results in biological function (Beck et al. 2008). ARF1 is involved with membrane traffic at the Golgi, including vesicle budding and podocyte function (Rafiq et al. 2017). Roles of ARF1 have also been identified in connectivity of mitochondrial networks and mitophagy (Ackema et al. 2014). Overexpression of ARF1 stimulates tumor progression and invasion, and therefore, blocking its activation has been suggested as a way to inhibit cancer progression (Prieto-Dominguez et al. 2019), and also to enhance the effectiveness of chemotherapy (Xu et al. 2017).</p>
Western Blotting	Mouse anti ARF1 detects a band of approximately 19 kDa in HEK293 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/VMA00931 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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