Datasheet: VMA00790 BATCH NUMBER 64598205

Description:	MOUSE ANTI MYOSIN REGULATORY LIGHT CHAIN
Specificity:	MYOSIN
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB03/2F2
lsotype:	lgG2a
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 <u>www.bio-rad-antibodies.com/protocols</u> .							
		Yes	No	Not Determined	Suggested Dilution			
	Immunoprecipitation	-						
	Western Blotting	-			1/1000			
	criteria within Bio-Rac how we validate our P	d's ongoin PrecisionA nique this c	g antibo b range . loes not r	dy validation program Where this product hat necessarily exclude its	e defined performance nme. Click <u>here</u> to learn s not been tested for use in such procedures.			
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 anti	body affinit	ty purified	on Protein G from tiss	ue culture supernatant			
Buffer Solution	Phosphate buffered sal	ine						

Preservative Stabilisers	0.09% Sodium Azide					
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml					
Immunogen	E. coli-derived recombinant protein of amino acids 1-172 of human myosin					
External Database Links	UniProt: P24844 Related reagents					
	Entrez Gene: <u>10398</u> MYL9 <u>Related reagents</u>					
Synonyms	MLC2, MRLC1, MYRL2					
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line					
Specificity	Mouse anti myosin antibody recognizes myosin regulatory light polypeptide 9 (MYL9), also known as MLC-2C.					
	The myosin superfamily contains actin-based molecular motors which facilitate muscle contraction among other motility processes, such as cytoplasmic contractility and mechanosensing. Myosin proteins use ATP hydrolysis to generate contractile force, powering movement (Heissler et al. 2016). Specific myosins are involved with specific functions. MYL9 is a regulatory subunit of myosin, which can be phosphorylated at threonine 18 and serine 19 to regulate activity. MYL9 also plays a unique role in the nucleus, transcriptionally activating intercellular adhesion molecule 1 (ICAM1) (Nevitt et al. 2018). Myosin functions as a tumor suppressor, with dysregulated activity in cancer. Loss of myosin has been shown to impact the metastatic potential of cells. However, targeting myosin may be difficult in cancer treatment due to its essential contractile functions (Surcel and Robinson 2019).					
Western Blotting	Mouse anti myosin antibody detects a band of approximately 18 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/VMA00790 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-ra	ad.com	Email: antibody_sales_uk@bio-ra	ad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M394647:220215'

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