

Datasheet: MCA1585

Description:	MOUSE ANTI HUMAN INTEGRIN ALPHA 9 BETA 1
Specificity:	INTEGRIN ALPHA 9 BETA 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	Y9A2
Isotype:	IgG1
Quantity:	0.2 mg

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
Flow Cytometry	■			
Immunohistology - Frozen		■		
Immunohistology - Paraffin		■		
Immunohistology - Resin		■		
ELISA			■	
Immunoprecipitation	■			
Western Blotting		■		

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Pig, Guinea Pig</p> <p>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.</p>
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	alpha9 integrin transfected lambda cells.
External Database Links	<p>UniProt: Q13797 Related reagents</p> <p>Entrez Gene: 3680 ITGA9 Related reagents</p>
RRID	AB_322166
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	<p>Mouse anti Human Integrin alpha 9 beta 1 antibody, clone Y9A2 recognizes the human alpha9 integrin, a ~140 kDa glycoprotein expressed as a heterodimer in association with the beta1 integrin. The alpha9 integrin is expressed by epithelial cells, including airway epithelial cells.</p> <p>Mouse anti Human Integrin alpha 9 beta 1 antibody, clone Y9A2 inhibits adhesion of alpha9 expressing cells to N-terminal osteopontin. Mouse anti Human Integrin alpha 9 beta 1 antibody, clone Y9A2 has been shown to cause 100% inhibition of α9β1-mediated adhesion to the third fibronectin type III repeat in tenascin at <10ug/ml (Yokosaki et al. 1998) and demonstrates Itga9 blocking of progenitor cell proliferation (Schreiber et al. 2009).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Wang, A. <i>et al.</i> (1996) Differential regulation of airway epithelial integrins by growth factors. Am J Respir Cell Mol Biol. 15 (5): 664-72. 2. Smith, L.L. <i>et al.</i> (1996) Osteopontin N-terminal domain contains a cryptic adhesive sequence recognized by alpha9beta1 integrin. J Biol Chem. 271 (45): 28485-91. 3. Yokosaki, Y. <i>et al.</i> (1996) Differential effects of the integrins alpha9beta1, alphavbeta3, and alphavbeta6 on cell proliferative responses to tenascin. Roles of the beta subunit extracellular and cytoplasmic domains. J Biol Chem. 271 (39): 24144-50. 4. Sime, W. <i>et al.</i> (2009) Human mast cells adhere to and migrate on epithelial and vascular basement membrane laminins LM-332 and LM-511 via alpha3beta1 integrin. J Immunol. 183 (7): 4657-65.

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1585 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#), [DyLight®650](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M437898:250320'

Printed on 20 Mar 2025