

Datasheet: OBT1715Z

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:	0.1 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			▪	
Functional Assays	▪			

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: 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
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Murine L cells transfected with human alpha-9 integrin.
External Database Links	<p>UniProt: Q13797 Related reagents</p> <p>Entrez Gene: 3680 ITGA9 Related reagents</p>
RRID	AB_617319
Specificity	<p>Mouse anti Human Integrin alpha 9 beta 1 antibody, clone Y9A2 recognizes human Integrin alpha 9/ beta 1, a receptor for VCAM1, cytotactin and osteopontin.</p> <p>In functional applications Mouse anti Human Integrin alpha 9 beta 1 antibody, clone Y9A2 has been shown to cause 100% inhibition of $\alpha 9 \beta 1$-mediated adhesion to the third fibronectin type III repeat in tenascin at <10ug/ml. Mouse anti Human Integrin alpha 9 beta 1 antibody, clone Y9A2 has been used to demonstrate Itga9 blocking of progenitor cell proliferation (Schreiber et al. 2009).</p>
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: 664-72. 2. Staniszewska, I. <i>et al.</i> (2008) Integrin alpha9 beta1 is a receptor for nerve growth factor and other neurotrophins. J Cell Sci. 121: 504-13. 3. Bazan-Socha, S. <i>et al.</i> (2004) Structural requirements of MLD-containing disintegrins for functional interaction with alpha 4 beta 1 and alpha 9 beta1 integrins. Biochemistry. 43:1639-47. 4. Kawataki, T. <i>et al.</i> (2007) Laminin isoforms and their integrin receptors in glioma cell migration and invasiveness: Evidence for a role of alpha5-laminin(s) and alpha3beta1 integrin. Exp Cell Res. 313 (18): 3819-31. 5. Graham KL <i>et al.</i> (2005) Rotaviruses interact with alpha4beta7 and alpha4beta1 integrins by binding the same integrin domains as natural ligands. J Gen Virol. 86 (Pt 12): 3397-408. 6. 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. 7. Schreiber, T.D. <i>et al.</i> (2009) The integrin alpha9beta1 on hematopoietic stem and progenitor cells: involvement in cell adhesion, proliferation and differentiation. Haematologica. 94 (11): 1493-501. 8. Wagner, B.J. <i>et al.</i> (2011) Simvastatin reduces tumor cell adhesion to human peritoneal mesothelial cells by decreased expression of VCAM-1 and $\beta 1$ integrin. Int J Oncol. 39 (6): 1593-600.

Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
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
----------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------	------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	---------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M377123:210212'

Printed on 07 Jan 2022