

Datasheet: MCA1187

Description:	MOUSE ANTI HUMAN CD49e
Specificity:	CD49e
Other names:	INTEGRIN ALPHA 5 CHAIN, VLA-5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JBS5
lsotype:	lgG1
Quantity:	0.2 mg

Product Details

Applications	This product has been re	This product has been reported to work in the following applications. This information is				
	derived from testing with	sting 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-</u>					
	rad-antibodies.com/proto	cols.				
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	•			Neat - 1/10	
	Immunohistology - Erozen	-			0.5ug/ml - 1ug/ml	

	Flow Cytometry	-		Neat - 1/10		
	Immunohistology - Frozen	•		0.5ug/ml - 1ug/ml		
	Immunohistology - Paraffin		-			
	ELISA		-			
	Immunoprecipitation	-		1ug/ml - 5ug/ml		
	Western Blotting		-			
	Functional Assays (1)	•				
	Where this antibody has	not been te	sted for use in a part	ticular technique this does not		
	necessarily exclude its us	se in such p	procedures. Suggeste	ed working dilutions are given as		
	a guide only. It is recomn	nended that	the user titrates the	antibody for use in their own		
	system using appropriate			,		
				ialysis is recommended prior		
	to use in functional ass		azido, i onio val by a			
	to use in functional ass	ays				
Target Species	Human					
Species Cross	Reacts with: Dog, Rabbit					
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross					
	reactivity is derived from	testing with	in our laboratories, p	peer-reviewed publications or		
	personal communications	s from the c	riginators. Please re	fer to references indicated for		
	further information.		0			
Product Form	Purified IgG - liquid					

Preparation	Purified IgG prepared by affinity chromatography on Protein A.			
Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	0.09% Sodium Azide			
Approx. Protein Concentrations	Ig concentration 0.5 mg/ml			
External Database Links	UniProt: P08648 Related reagents Entrez Gene: 3678 ITGA5 Related reagents			
Synonyms	FNRA			
RRID	AB_2128002			
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.			
Specificity	Mouse anti Human CD49e antibody, clone JBS5 recognizes the Alpha 5 integrin, also known as CD49e, VLA-5, Fibronectin receptor subunit alpha or Integrin alpha-F. CD49e is a 1049 amino acid ~130kDa single pass type-1 transmembrane glycoprotein containing seven <u>FG-GAP</u> repeats. Mouse anti human CD49e antibody, clone JBS5 been shown to stimulate homotypic cellular aggregation of alpha 5 beta 1 positive lymphoid cell lines (<u>Shen <i>et al.</i> 1991</u>). It also inhibits the adherence of cells to fibronectin.			
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul of whole blood.			
Histology Positive Control Tissue	Human Endothelium			
References	 Shen, C.X. <i>et al.</i> (1991) Antibodies to different members of the beta 1 (CD29) integrins induce homotypic and heterotypic cellular aggregation. <u>Cell Immunol. 138 (1): 216-28.</u> McCarty, O.J. <i>et al.</i> (2004) Evaluation of the role of platelet integrins in fibronectin- dependent spreading and adhesion. <u>J Thromb Haemost. 2 (10): 1823-33.</u> Bax, D.V. <i>et al.</i> (2004) Integrin alpha5beta1 and ADAM-17 interact <i>in vitro</i> and co-localize in migrating HeLa cells. <u>J Biol Chem. 279 (21): 22377-86.</u> Gassmann, P. <i>et al.</i> (2009) CXCR4 regulates the early extravasation of metastatic tumor cells <i>in vivo</i>. <u>Neoplasia. 11: 651-61.</u> Yao, H. <i>et al.</i> (2010) Increased potency of the PHSCN dendrimer as an inhibitorof human prostate cancer cell invasion, extravasation, and lung colony formation. <u>Clin Exp Metastasis 27:173-84.</u> 			

	 6. Gassmann, P. <i>et al</i> (2010) In vivo tumor cell adhesion in the pulmonary microvasculature is exclusively mediated by tumor cellendothelial cell interaction. <u>BMC Cancer. 10: 177.</u> 7. Schuberth, H-J.<i>et al.</i> (2007) Reactivity of cross-reacting monoclonal antibodies with canine leukocytes, platelets and erythrocytes. <u>Vet Immunol Immunopathol. 119 (1-2): 47-55.</u> 8. Piccinno, M.S. <i>et al.</i> (2013) Adipose stromal/stem cells assist fat transplantation reducing necrosis and increasing graft performance. <u>Apoptosis. 18 (10): 1274-89.</u> 9. Veine, D.M. <i>et al.</i> (2014) A D-amino acid containing peptide as a potent, noncovalent inhibitor of α5β1 integrin in human prostate cancer invasion and lung colonization. <u>Clin Exp Metastasis. 31 (4): 379-93.</u>
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost free freezers is not recommended. 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 #10040 available at: 10040: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</u>
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 (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®680,		
	DyLight®800, FITC, HRP		
Rabbit Anti Mouse IgG (STAR9)	FITC		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	<u>FITC</u> , <u>HRP</u>		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>			
Recommended Negative Controls			

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1
America	Fax: +1 919 878 3751		Fax: +44 (0)
	Email: antibody_sales_us	@bio-rad.com	Email: antibo

el: +44 (0)1865 852 700 Europe Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com 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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