

Datasheet: MCA1457GA BATCH NUMBER 1801

Description:	MOUSE ANTI HUMAN CD49f
Specificity:	CD49f
Other names:	INTEGRIN ALPHA 6 CHAIN, VLA-6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	450-30A
Isotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			1/10 - 1/50
Immunohistology - Frozen (1)				1/50 - 1/100
Immunohistology - Paraffin				
ELISA			•	
Immunoprecipitation			•	
Western Blotting				

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Human	
Product Form	Purified IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant	

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	alpha 6 beta 4 integrin purified from A431 cells.
External Database Links	UniProt: P23229 Related reagents Entrez Gene: <u>3655</u> ITGA6 <u>Related reagents</u>
RRID	AB_324600
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Human CD49f antibody, clone 450-30A recognizes the human VLA-6 cell surface antigen, also known as the alpha 6 integrin and as CD49f.
	CD49f is expressed by platelets, weakly by monocytes and by a subset of lymphocytes.
	CD49f is also widely expressed on epithelial tissues.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Tonsil
References	 Kennel, S.J. <i>et al.</i> (1990) Second generation monoclonal antibodies to the human integrin alpha 6 beta 4. <u>Hybridoma. 9 (3): 243-55.</u> Maurice, S. <i>et al.</i> (2007) Isolation of progenitor cells from cord blood using adhesion matrices. <u>Cytotechnology. 54: 121-33.</u> Cavers, M. <i>et al.</i> (2002) Differential expression of beta1 and beta2 integrins and L-selectin on CD4+ and CD8+ T lymphocytes in human blood: comparative analysis between isolated cells, whole blood samples and cryopreserved preparations. <u>Clin Exp Immunol. 127: 60-5.</u> López, J. <i>et al.</i> (2012) Cancer-initiating cells derived from established cervical cell lines exhibit stem-cell markers and increased radioresistance. <u>BMC Cancer. 12: 48.</u> Keller, P.J. <i>et al.</i> (2012) Defining the cellular precursors to human breast cancer. <u>Proc Natl Acad Sci U S A. 109: 2772-7.</u> Kaczmarek, M. <i>et al.</i> (2011) Evaluation of the phenotype pattern of macrophages

	isolated from malignant and non-malignant pleural effusions. <u>Tumour Biol. 32: 1123-32.</u>		
	7. Aldridge, V. <i>et al.</i> (2012) Human mesenchymal stem cells are recruited to injured liver		
	in a β 1-integrin and CD44 dependent manner. <u>Hepatology. 56 (3): 1063-73.</u>		
	8. Steinberg, F. <i>et al.</i> (2012) SNX17 protects integrins from degradation by sorting		
	between lysosomal and recycling pathways. <u>J Cell Biol. 197 (2): 219-30.</u> 9. Liu, L. <i>et al.</i> (2003) Priming of eosinophil migration across lung epithelial cell		
	monolayers and upregulation of CD11b/CD18 are elicited by extracellular Ca^{2+} Am J		
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Respir Cell Mol Biol. 28: 713-21. 10. Goyer, B. <i>et al.</i> (2017) Extracellular matrix and integrin expression pro			
	endothelial corneal dystrophy cells and tissue model. <u>Tissue Eng Part A. Jul 20 [Epub</u>		
	ahead of print].		
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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	Material Safety Datasheet documentation #10040 available at:		
Information	https://www.bio-rad-antibodies.com/SDS/MCA1457GA		
	10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>				
Goat Anti Mouse IgG (STAR76)	RPE			
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>			
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,			
	<u>FITC</u> , <u>HRP</u>			

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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

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