

Datasheet: MCA1457F BATCH NUMBER 166778

Description:	MOUSE ANTI HUMAN CD49f:FITC		
Specificity:	CD49f		
Other names:	INTEGRIN ALPHA 6 CHAIN, VLA-6		
Format:	FITC		
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			Neat
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	

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		
Product Form	Purified IgG conjug	gated to Fluorescein Isoth	niocyanate Isomer
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nn
	FITC	490	525
Preparation	Purified IgG prepar supernatant	ed by affinity chromatog	raphy on Protein A
	•		
Buffer Solution	Phosphate buffered	d saline	
Buffer Solution Preservative	·		

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	alpha 6 beta 4 integrin purified from A431 cells.
External Database Links	UniProt: P23229 Related reagents
	Entrez Gene: 3655 ITGA6 Related reagents
RRID	AB_321465
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 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	 Kennel, S.J. et al. (1990) Second generation monoclonal antibodies to the human integrin alpha 6 beta 4. Hybridoma. 9 (3): 243-55. Cavers, M. et al. (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. Clin Exp Immunol. 127: 60-5. Liu, L. et al. (2003) Priming of eosinophil migration across lung epithelial cell
	monolayers and upregulation of CD11b/CD18 are elicited by extracellular Ca ^{2+.} Am J Respir Cell Mol Biol. 28: 713-21. 4. Maurice, S. <i>et al.</i> (2007) Isolation of progenitor cells from cord blood using adhesion
	 matrices. <u>Cytotechnology</u>. <u>54</u>: <u>121-33</u>. 5. 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</u>: <u>1123-32</u>. 6. 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</u>: <u>48</u>. 7. 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</u>: <u>2772-7</u>. 8. Aldridge, V. <i>et al.</i> (2012) Human mesenchymal stem cells are recruited to injured liver

- 8. Aldridge, V. *et al.* (2012) Human mesenchymal stem cells are recruited to injured liver in a β1-integrin and CD44 dependent manner. <u>Hepatology. 56 (3): 1063-73.</u>
- 9. Steinberg, F. *et al.* (2012) SNX17 protects integrins from degradation by sorting between lysosomal and recycling pathways. <u>J Cell Biol. 197 (2): 219-30.</u>
- 10. Goyer, B. et al. (2018) Extracellular Matrix and Integrin Expression Profiles in Fuchs

Endothelial Corneal Dystrophy Cells and Tissue Model. <u>Tissue Eng Part A. 24 (7-8):</u> 607-15.

11. Amirian, M. *et al.* (2022) VASA protein and gene expression analysis of human non-obstructive azoospermia and normal by immunohistochemistry, immunocytochemistry, and bioinformatics analysis. <u>Sci Rep. 12 (1): 17259.</u>

12. Hashemi Karoii, D. *et al.* (2023) Altered G-Protein Transduction Protein Gene Expression in the Testis of Infertile Patients with Nonobstructive Azoospermia. <u>DNA Cell Biol.</u> 42 (10): 617-37.

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. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1457F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Email: antibody_sales_us@bio-rad.com

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_uk@bio-rad.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 'M422744:231003'

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