

## Datasheet: MCA1457FT

<b>Description:</b>	MOUSE ANTI HUMAN CD49f:FITC
<b>Specificity:</b>	CD49f
<b>Other names:</b>	INTEGRIN ALPHA 6 CHAIN, VLA-6
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	450-30A
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	25 µg

## 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](http://www.bio-rad-antibodies.com/protocols).

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

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	alpha 6 beta 4 integrin purified from A431 cells.		
<b>External Database Links</b>	<b>UniProt:</b>		

**Entrez Gene:**

[3655](#)   ITGA6   [Related reagents](#)

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**RRID**                    AB\_1102164

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**Fusion Partners**        Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

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**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.

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**Flow Cytometry**        Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Kennel, S.J. *et al.* (1990) Second generation monoclonal antibodies to the human integrin alpha 6 beta 4. [Hybridoma. 9 \(3\): 243-55.](#)
  2. Maurice, S. *et al.* (2007) Isolation of progenitor cells from cord blood using adhesion matrices. [Cytotechnology. 54: 121-33.](#)
  3. 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.](#)
  4. López, J. *et al.* (2012) Cancer-initiating cells derived from established cervical cell lines exhibit stem-cell markers and increased radioresistance. [BMC Cancer. 12: 48.](#)
  5. Keller, P.J. *et al.* (2012) Defining the cellular precursors to human breast cancer. [Proc Natl Acad Sci U S A. 109: 2772-7.](#)
  6. Kaczmarek, M. *et al.* (2011) Evaluation of the phenotype pattern of macrophages isolated from malignant and non-malignant pleural effusions. [Tumour Biol. 32: 1123-32.](#)
  7. Aldridge, V. *et al.* (2012) Human mesenchymal stem cells are recruited to injured liver in a  $\beta$ 1-integrin and CD44 dependent manner. [Hepatology. 56 \(3\): 1063-73.](#)
  8. Steinberg, F. *et al.* (2012) SNX17 protects integrins from degradation by sorting between lysosomal and recycling pathways. [J Cell Biol. 197 \(2\): 219-30.](#)
  9. Liu, L. *et al.* (2003) Priming of eosinophil migration across lung epithelial cell monolayers and upregulation of CD11b/CD18 are elicited by extracellular Ca<sup>2+</sup>. [Am J Respir Cell Mol Biol. 28: 713-21.](#)
  10. Goyer, B. *et al.* (2017) Extracellular matrix and integrin expression profiles in Fuchs endothelial corneal dystrophy cells and tissue model. [Tissue Eng Part A. Jul 20 \[Epub ahead of print\].](#)
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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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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