

# Datasheet: MCA1416F

**BATCH NUMBER 160967**

<b>Description:</b>	MOUSE ANTI HUMAN CD103:FITC
<b>Specificity:</b>	CD103
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LF61
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

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 A		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		

Immunogen	Hairy cell leukemia cells
External Database Links	<p><b>UniProt:</b>  <a href="#">P38570</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3682</a>   ITGAE   <a href="#">Related reagents</a></p>
RRID	AB_321982
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS0 myeloma cell line
Specificity	<b>Mouse anti Human CD103 antibody, clone LF61</b> recognizes the human CD103 cell surface antigen, a glycoprotein expressed by approximately 1% of peripheral blood lymphocytes, activated T lymphocytes and by hairy cell leukemia cells. The antigen is also expressed by intraepithelial lymphocytes. It has recently been shown to be identical to the alpha E integrin.
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol style="list-style-type: none"> <li>1. Falini, B. <i>et al.</i> (1990) Selection of a panel of monoclonal antibodies for monitoring residual disease in peripheral blood and bone marrow of interferon-treated hairy cell leukaemia patients. <a href="#">Br J Haematol. 76 (4): 460-8.</a></li> <li>2. Ling, K.L. <i>et al.</i> (2007) Modulation of CD103 expression on human colon carcinoma-specific CTL. <a href="#">J Immunol. 178: 2908-15.</a></li> <li>3. Hadley, G.A. <i>et al.</i> (2001) CD103+ CTL accumulate within the graft epithelium during clinical renal allograft rejection. <a href="#">Transplantation. 72 (9): 1548-55.</a></li> </ol>
Storage	<p>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.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1416F10041">https://www.bio-rad-antibodies.com/SDS/MCA1416F10041</a>
Regulatory	For research purposes only

## Related Products

### Recommended Negative Controls

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

## Recommended Useful Reagents

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

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

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

'M385868:210513'

**Printed on 09 Feb 2024**

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