

## Monoclonal Antibody to CD103 - FITC

<b>Alternate names:</b>	HML-1 antigen, ITGAE, Integrin alpha-E, Integrin alpha-IEL, Mucosal lymphocyte 1 antigen
<b>Catalog No.:</b>	SM1800F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD103/Integrin alpha E is a new member of the integrin series of adhesion molecules containing the beta7 subunit. This antigen defines a developmentally important subset of T cells, namely mucosal T cells including all IEL (intraepithelial lymphocytes) and ~20% of lamina propria T cells. Expression of CD103 is more restricted outside these mucosal organs, appearing at lower levels on T cell subsets of the lymph node, dendritic epidermis and periphery. In non-epithelial CD103+ T cells there is a bias toward expression on CD8+ cells. Integrin alpha E is a heterodimer comprising a 150kDa alpha chain and a 120kDa beta chain. Integrin alpha E is expressed by approximately 1% of peripheral blood lymphocytes, activated T lymphocytes and by hairy cell leukaemia cells. The antigen is also expressed by intraepithelial lymphocytes. It has recently been shown to be identical to the alpha E integrin.
<b>Uniprot ID:</b>	<a href="#">P38570</a>
<b>NCBI:</b>	<a href="#">NP_002199.3</a>
<b>GeneID:</b>	<a href="#">3682</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	LF61
<b>Immunogen:</b>	Hairy cell leukaemia cells. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSO myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein A. <b>Buffer Solution:</b> PBS <b>Preservatives:</b> 0.09% Sodium Azide <b>Stabilizers:</b> 0.5% BSA <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 5 µl of neat-1/10 diluted antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD103 cell surface antigen. <b>Species:</b> Human. Other species not tested.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General References:** 1. Flenghi, L. et al. (1990) LF61: a new monoclonal antibody directed against a trimeric molecule (150kD, 125kD, 105kD) associated with hairy cell leukaemia. Br. J. Haem. 76: 451-459.  
2. Falini, B. et al. (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. Br. J. Haem. 76: 460-468.  
3. Ling, K.L. et al. (2007) Modulation of CD103 expression on human colon carcinoma-specific CTL. J Immunol. 178: 2908-15.

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