

## Monoclonal Antibody to CD62L / L-Selectin - FITC

<b>Alternate names:</b>	CD62 antigen-like family member L, LAM-1, LECAM1, LNHR, LYAM1, Leu-8, Leukocyte adhesion molecule 1, Leukocyte surface antigen Leu-8, Leukocyte-endothelial cell adhesion molecule 1, Lymph node homing receptor, SELL, TQ1, gp90-MEL
<b>Catalog No.:</b>	CL032FX
<b>Quantity:</b>	0.3 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	L-selectin is expressed on most T and B lymphocytes, neutrophils, monocytes, eosinophils. <sup>1</sup> Pre-incubation of lymphocytes with this antibody completely and specifically blocks binding of lymphocytes to high endothelial venules (HEV) in vitro <sup>2,3,6</sup> and the migration of lymphocytes to lymph nodes in vivo. <sup>2,3</sup> Polymorphonuclear cells preincubated with this antibody do not migrate to the inflammatory foci.
<b>Uniprot ID:</b>	<a href="#">P18337</a>
<b>NCBI:</b>	<a href="#">NP_035476.1</a>
<b>GeneID:</b>	<a href="#">20343</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	MEL-14
<b>Immunogen:</b>	Mouse B cell Lymphoma, 38C-14 Donor: Fischer Rat Spleen Fusion Partner: P3 X 63Ag8.653
<b>Format:</b>	<b>State:</b> Liquid <b>Purification:</b> Protein G Chromatography <b>Buffer System:</b> PBS, 0.02% NaN <sub>3</sub> and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml <b>Label:</b> FITC
<b>Applications:</b>	Flow cytometry. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This monoclonal antibody reacts with a 90 kDa protein which is involved with the homing of lymphocytes to peripheral lymph nodes. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

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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)

- General References:**
- 1) Fink, P., W. Gallatin, R. Reichert, et al. 1985. Homing receptor-bearing thymocytes, an immunocomponent cortical subpopulation. *Nature* 313: 233-235
  - 2) Gallatin, W.M., I.L. Weissman., E.C. Butcher 1983. A cell surface molecule involved in organ specific homing of lymphocytes. *Nature* 304:30-34
  - 3) Lewinsohn, D.M., R.F. Bargatze, E.C. Butcher 1987. Leukocyte endothelial cell recognition: evidence of a common molecular mechanism shared by neutrophils, lymphocytes and other leukocytes. *J. Immunology* 138:4313-4321
  - 4) Reichert, R., M. Gallatin, E. Butcher, et al. 1984. A homing receptor bearing cortical thymocyte subset: Implications for thymus cell migration and the nature of cortisone-resistant thymocytes. *Cell* 38: 89-99
  - 5) Siegelman, M., I.C. Cheng, I.L. Weissman, et al. 1990. The mouse lymph node homing receptor is identical with the lymphocyte cell surface receptor Ly-22: Role of the EGF domain in endothelial binding. *Cell* 61: 611-622
  - 6) Jalkanen, S., R.F. Bargatze, J. Toyos, et al. 1987. Lymphocyte Recognition of High Endothelium: Antibodies to Distinct Epitopes of an 85-95-kD Glycoprotein Antigen Differentially Inhibit Lymphocyte Binding to Lymph Node, Mucosal, or Synovial Endothelial Cell. *J. of Cell Biol.* 105: 983-990

**Protocols:**

**FLOW CYTOMETRY ANALYSIS:**

**Method:**

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of  $2 \times 10^7$  cells/ml in media A. Add 50  $\mu$ l of this suspension to each tube (each tube will then contain  $1 \times 10^6$  cells, representing 1 test).
4. To each tube, add 0.2 - 0.5  $\mu$ g\* of this Ab per  $10^6$  cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C. (It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive).
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50  $\mu$ l ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

**Media:**

- A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

**Results - Tissue Distribution by:**

Mouse Strain: BALB/c

Cell Concentration:  $1 \times 10^6$  cells per test

Antibody Concentration Used: 0.2  $\mu$ g/ $10^6$  cells

Isotypic Control: FITC Rat IgG2a

**Cell Source: Percentage of cells stained above control:**

Thymus: 88.8%

Spleen: 36.6%

Lymph Node: 74.4%

**Strain Distribution:**

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Cell Concentration: 1x10<sup>6</sup> cells per test

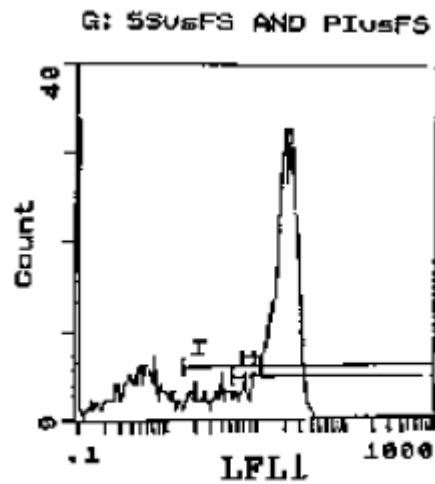
Antibody Concentration Used: 0.2 µg/10<sup>6</sup> cells

Strains Tested: BALB/c, CBA/J, C3H/He, C57BL/6, AKR

Positive: BALB/c, CBA/J, C3H/He, C57BL/6, AKR

Negative: none

Pictures:



Cell Source: Lymph Node

Percentage of cells stained above control: 74.4%

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