

## Datasheet: MCA1076FT

**BATCH NUMBER 150832**

|                      |                             |
|----------------------|-----------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD62L:FITC |
| <b>Specificity:</b>  | CD62L                       |
| <b>Other names:</b>  | LECAM-1, L-SELECTIN         |
| <b>Format:</b>       | FITC                        |
| <b>Product Type:</b> | Monoclonal Antibody         |
| <b>Clone:</b>        | FMC46                       |
| <b>Isotype:</b>      | IgG2b                       |
| <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 | ▪   |    |                | 1/25 - 1/100       |

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.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Bovine, Cynomolgus monkey, Rhesus Monkey, Dog  
**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid.

| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|-----------|-------------|---------------------|-------------------|
|           | FITC        | 490                 | 525               |

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

|                                       |  |
|---------------------------------------|--|
| <b>Buffer Solution</b>                | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide<br>1% Bovine Serum Albumin  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.1 mg/ml  |
| <b>Immunogen</b>                      | PHA stimulated lymphoblasts  |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P14151</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">6402</a>    SELL    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                       | LNHR, LYAM1  |
| <b>RRID</b>                           | AB_2285820   |
| <b>Fusion Partners</b>                | Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line   |
| <b>Specificity</b>                    | <p><b>Mouse anti Human CD62L antibody, clone FMC46</b> recognizes human CD62L, also known a L-selectin, a 74-95 kDa member of the selectin family of adhesion receptors, which acts as a ligand for both CD62P (P-selectin) and CD62E (E-selectin). Human CD62L is constitutively expressed on most leucocytes including monocytes, granulocytes, lymphocytes, NK cells, bone marrow myeloid progenitor cells and on a subset of thymocytes.</p> <p>CD62L plays an important role in leucocyte tethering and rolling on the endothelial cell surface and for the homing of naïve lymphocytes to lymph nodes and Peyer patches via HEV. Neutrophils require a constant supply of this molecule on the cell surface for migration into peripheral tissues and adhesion to activated endothelium at sites of inflammation, where CD62L is rapidly shed as soluble L-selectin, but surface expression still remains.</p> <p>The expression of CD62L is down regulated on lymphocytes and neutrophils by PMA stimulation.</p> |
| <b>Flow Cytometry</b>                 | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood.  |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. Pilarski, L.M. <i>et al.</i> (1991) FMC46, a cell protrusion-associated leukocyte adhesion molecule-1 epitope on human lymphocytes and thymocytes. <a href="#">J Immunol. 147 (1): 136-43.</a></li> <li>2. Zola, H. <i>et al.</i> (1991) The expression of sub-population markers on B cells: a re-evaluation using high-sensitivity fluorescence flow cytometry. <a href="#">Dis Markers. 9 (2): 103-18.</a></li> </ol>   |

3. Sopp, P. & Howard, C.J. (1997) Cross-reactivity of monoclonal antibodies to defined human leucocyte differentiation antigens with bovine cells. [Vet Immunol Immunopathol. 56 \(1-2\): 11-25.](#)
4. Haanstra, K.G. *et al.* (2008) Characterization of naturally occurring CD4+CD25+ regulatory T cells in rhesus monkeys. [Transplantation 85:1185-92.](#)
5. Dalli, J. *et al.* (2008) Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. [Blood. 112 \(6\): 2512-9.](#)
6. Raposo, R.A. *et al.* (2011) Protein Kinase C and NF- $\kappa$ B-Dependent CD4 Downregulation in Macrophages Induced by T Cell-Derived Soluble Factors: Consequences for HIV-1 Infection. [J Immunol. 187: 748-59.](#)
7. Hughes, S.F. *et al.* (2010) Total hip and knee replacement surgery results in changes in leukocyte and endothelial markers. [J Inflamm \(Lond\). 7:2.](#)
8. Bismarck, D. *et al.* (2012) Canine CD4+CD8+ double positive T cells in peripheral blood have features of activated T cells. [Vet Immunol Immunopathol. 149: 157-66.](#)
9. Hartley, A.N. & Tarleton, R.L. (2015) Chemokine receptor 7 (CCR7)-expression and IFN $\gamma$  production define vaccine-specific canine T-cell subsets. [Vet Immunol Immunopathol. 164 \(3-4\): 127-36.](#)
10. Hayhoe, R.P. *et al.* (2006) Annexin 1 and its bioactive peptide inhibit neutrophil-endothelium interactions under flow: indication of distinct receptor involvement. [Blood. 107 \(5\): 2123-30.](#)
11. Urquhart, P. *et al.* (2007) Carbon monoxide-releasing molecules modulate leukocyte-endothelial interactions under flow. [J Pharmacol Exp Ther. 321 \(2\): 656-62.](#)
12. Aspinall, A.I. *et al.* (2010) CX(3)CR1 and vascular adhesion protein-1-dependent recruitment of CD16(+) monocytes across human liver sinusoidal endothelium. [Hepatology. 51 \(6\): 2030-9.](#)
13. Rothe, K. *et al.* (2017) Canine peripheral blood CD4<sup>+</sup>CD8<sup>+</sup> double-positive Tcell subpopulations exhibit distinct Tcell phenotypes and effector functions. [Vet Immunol Immunopathol. 185: 48-56.](#)
14. Withers, S.S. *et al.* (2018) Multi-color flow cytometry for evaluating age-related changes in memory lymphocyte subsets in dogs. [Dev Comp Immunol. 87: 64-74.](#)
15. Hughes, S.F. *et al.* (2020) The role of phagocytic leukocytes following flexible ureteroscopy, for the treatment of kidney stones: an observational, clinical pilots-study. [Eur J Med Res. 25 \(1\): 68.](#)

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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:

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:FITC \(MCA691F\)](#)

### 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)

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

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