

# Datasheet: MCA1076SBB580

| Description:  | MOUSE ANTI HUMAN CD62L:StarBright Blue 580 |
|---------------|--------------------------------------------|
| Specificity:  | CD62L                                      |
| Other names:  | LECAM-1, L-SELECTIN                        |
| Format:       | StarBright Blue 580                        |
| Product Type: | Monoclonal Antibody                        |
| Clone:        | FMC46                                      |
| Isotype:      | lgG2b                                      |
| Quantity:     | 100 TESTS/0.5ml                            |
|               |                                            |

## **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 <u>www.bio-rad-antibodies.com/protocols</u> . |                                 |                              |                             |  |  |  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------|-----------------------------|--|--|--|
|                             |                                                                                                                                                                                                                                                                                                                                                                                    | Yes                             | No Not Determined            | Suggested Dilution          |  |  |  |
|                             | Flow Cytometry                                                                                                                                                                                                                                                                                                                                                                     | •                               |                              | Neat                        |  |  |  |
|                             | necessarily exclude its                                                                                                                                                                                                                                                                                                                                                            | s use in such p<br>mmended that | the user titrates the produc | king dilutions are given as |  |  |  |
| Target Species              | Human                                                                                                                                                                                                                                                                                                                                                                              |                                 |                              |                             |  |  |  |
| Species Cross<br>Reactivity | Reacts with: Bovine, Cynomolgus monkey, Rhesus Monkey, Dog<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross<br>reactivity is derived from testing within our laboratories, peer-reviewed publications or<br>personal communications from the originators. Please refer to references indicated for<br>further information.                |                                 |                              |                             |  |  |  |
| Product Form                | Purified IgG conjugated to StarBright Blue 580 - liquid                                                                                                                                                                                                                                                                                                                            |                                 |                              |                             |  |  |  |
| Max Ex/Em                   | Fluorophore                                                                                                                                                                                                                                                                                                                                                                        | Excitation Max                  | (nm) Emission Max (nm)       | )                           |  |  |  |
|                             | StarBright Blue 580                                                                                                                                                                                                                                                                                                                                                                | 475                             | 582                          |                             |  |  |  |
| Preparation                 | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant                                                                                                                                                                                                                                                                                      |                                 |                              |                             |  |  |  |
| Buffer Solution             | Phosphate buffered sa                                                                                                                                                                                                                                                                                                                                                              | aline                           |                              |                             |  |  |  |

| Preservative<br>Stabilisers | 0.09% sodium azide (NaN <sub>3</sub> )<br>1% bovine serum albumin<br>0.1% Pluronic F68<br>0.1% PEG 3350<br>0.05% Tween 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Immunogen                   | PHA stimulated lymphoblasts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
| External Database<br>Links  | UniProt:<br><u>P14151</u> <u>Related reagents</u><br>Entrez Gene:<br><u>6402</u> SELL <u>Related reagents</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| Synonyms                    | LNHR, LYAM1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
| Fusion Partners             | Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Specificity                 | <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.                                                                                                                                                                                                     |  |  |  |
|                             | 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 Peyers 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.                                                                                                                                                                                 |  |  |  |
|                             | The expression of CD62L is down regulated on lymphocytes and neutrophils by PMA stimulation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| Flow Cytometry              | Use 5µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
| References                  | <ol> <li>Zola, H. <i>et al.</i> (1991) The expression of sub-population markers on B cells: a<br/>re-evaluation using high-sensitivity fluorescence flow cytometry. <u>Dis Markers. 9 (2):</u><br/><u>103-18.</u></li> <li>Sopp, P. &amp; Howard, C.J. (1997) Cross-reactivity of monoclonal antibodies to defined<br/>human leucocyte differentiation antigens with bovine cells. <u>Vet Immunol Immunopathol. 56</u><br/>(<u>1-2</u>): <u>11-25.</u></li> <li>Haanstra, K.G. <i>et al.</i> (2008) Characterization of naturally occurring CD4+CD25+<br/>regulatory T cells in rhesus monkeys. <u>Transplantation 85:1185-92.</u></li> </ol> |  |  |  |

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|                   | 11. Aspinall, A.I. <i>et al.</i> (2010) CX(3)CR1 and vascular adhesion protein-1-dependent                                                                    |
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|                   | Proliferation of CD8(+) T-Cells in Dogs. <u>Vet Sci. 10 (9): 541</u>                                                                                          |
| Storage           | Store at +4°C.                                                                                                                                                |
|                   | DO NOT FREEZE.                                                                                                                                                |
|                   | This product should be stored undiluted.                                                                                                                      |
| Guarantee         | 12 months from date of despatch                                                                                                                               |
| Acknowledgements  | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts                                                               |
| Health And Safety | Material Safety Datasheet documentation #20471 available at:                                                                                                  |
| Information       | https://www.bio-rad-antibodies.com/SDS/MCA1076SBB580                                                                                                          |

#### Regulatory

For research purposes only

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### **Recommended Useful Reagents**

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