# Datasheet: MCA1259PE

## BATCH NUMBER 154372

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| **Description:** | RAT ANTI MOUSE CD62L:RPE |
| **Specificity:** | CD62L |
| **Other names:** | LECAM-1, L-SELECTIN |
| **Format:** | RPE |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | MEL-14 |
| **Isotype:** | IgG2a |
| **Quantity:** | 100 TESTS |

## 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.

| | Yes | No | Not Determined | Suggested Dilution |
|---|---|---|---|---|
| Flow Cytometry | ▪ | | | Neat - 1/2 |

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**

Mouse

**Product Form**

Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

**Reconstitution**

Reconstitute with 1 ml distilled water

**Max Ex/Em**

| Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|---|---|---|
| RPE 488nm laser | 496 | 578 |

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G.

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide
1% Bovine Serum Albumin
5% Sucrose

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| **Immunogen** | Mouse B cell lymphoma, 38C-14. |
| **External Database Links** | **UniProt:**<br>P18337 Related reagents<br><br>**Entrez Gene:**<br>20343 Sell Related reagents |
| **Synonyms** | Lnhr, Ly22, Ly-22 |
| **RRID** | AB_324106 |
| **Fusion Partners** | Spleen cells from immunised Fischer rats were fused with cells of the mouse P3.X63.Ag8.653 myeloma cell line. |
| **Specificity** | **Rat anti mouse CD62L, clone MEL-14,** recognizes mouse L-selectin. L-selectin is an adhesion molecule expressed on most T and B lymphocytes, neutrophils, monocytes and eosinophils, (Fink, P. *et al*., 1985).<br><br>Pre-incubation of lymphocytes with MEL-14 completely and specifically blocks binding of lymphocytes to high endothelial venules (HEV) in vitro and the migration of lymphocytes to lymph nodes *in vivo* (Gallatin, W. *et al*. 1983). Removal of sodium azide is recommended prior to using this clone in functional assays. |
| **Flow Cytometry** | Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul.<br><br>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B). |
| **References** | 1. Fink, P.J. *et al.* (1985) Homing receptor-bearing thymocytes, an immunocompetent cortical subpopulation. Nature. 313 (5999): 233-5.<br>2. Gallatin, W.M. *et al.* (1983) A cell-surface molecule involved in organ-specific homing of lymphocytes. Nature. 304 (5921): 30-4.<br>3. Lewinsohn, D.M. *et al.* (1987) Leukocyte-endothelial cell recognition: evidence of a common molecular mechanism shared by neutrophils, lymphocytes, and other leukocytes. J Immunol. 138 (12): 4313-21.<br>4. Reichert, R.A. *et al.* (1984) A homing receptor-bearing cortical thymocyte subset: implications for thymus cell migration and the nature of cortisone-resistant thymocytes. Cell. 38 (1): 89-99.<br>5. Siegelman, M.H. *et al.* (1990) The mouse lymph node homing receptor is identical with the lymphocyte cell surface marker Ly-22: role of the EGF domain in endothelial binding. Cell. 61 (4): 611-22.<br>6. Jalkanen, S. *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 cells. J Cell Biol. 105 (2): 983-90. |
| **Storage** | Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. |

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| | DO NOT FREEZE.<br><br>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. |
| **Guarantee** | 12 months from date of despatch |
| **Health And Safety Information** | Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1259PE<br>20487 |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)


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|---|---|---|---|---|---|
| **North & South America** | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: antibody_sales_us@bio-rad.com | **Worldwide** | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: antibody_sales_uk@bio-rad.com | **Europe** | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: 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

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**Printed on 18 Jan 2024**