

# Datasheet: MCA1259PE

Description:	RAT ANTI MOUSE CD62L:RPE
Specificity:	CD62L
Other names:	LECAM-1, L-SELECTIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MEL-14
lsotype:	lgG2a
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 <u>www.bio-</u>						
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	-			Neat - 1/2		
	Where this product has not been tested for use in a particular technique this doe						
	necessarily exclude its use in such procedures. Suggested working dilutions are given a a guide only. It is recommended that the user titrates the product 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 M	ax (nm)	Emission Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from ascites						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% sodium azide (f 1% bovine serum albu 5% sucrose	NaN <sub>3</sub> ) min					

External Database Links	UniProt:         P18337       Related reagents         Entrez Gene:         20343       Sell         Related reagents
Synonyms	Lnhr, Ly22, Ly-22
RRID	AB_324106
Fusion Partners	Spleen cells from immunized Fischer rats were fused with cells of the mouse P3.X63.Ag8.653 myeloma cell line.
Specificity	<b>Rat anti Mouse CD62L, clone MEL-14,</b> recognizes <u>mouse L-selectin</u> . L-selectin is an adhesion molecule expressed on most T and B lymphocytes, neutrophils, monocytes and eosinophils, ( <u>Fink, P. <i>et al.</i>, 1985</u> ).
	Pre-incubation of lymphocytes with MEL-14 completely and specifically blocks binding of lymphocytes to high endothelial venules (HEV) <i>in vitro</i> and the migration of lymphocytes to lymph nodes <i>in vivo</i> ( <u>Gallatin <i>et al.</i> 1983</u> ). Removal of sodium azide is recommended prior to using this clone in functional assays.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. 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 ( <u>BUF041A/BUF041B</u> ).
References	<ol> <li>Gallatin, W.M. <i>et al.</i> (1983) A cell-surface molecule involved in organ-specific homing of lymphocytes. <u>Nature. 304 (5921): 30-4.</u></li> <li>Reichert, R.A. <i>et al.</i> (1984) A homing receptor-bearing cortical thymocyte subset: implications for thymus cell migration and the nature of cortisone-resistant thymocytes. <u>Cell. 38 (1): 89-99.</u></li> <li>Fink, P.J. <i>et al.</i> (1985) Homing receptor-bearing thymocytes, an immunocompetent cortical subpopulation. <u>Nature. 313 (5999): 233-5.</u></li> <li>Jalkanen, S. <i>et al.</i> (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. <u>J Cell Biol. 105 (2): 983-90.</u></li> <li>Lewinsohn, D.M. <i>et al.</i> (1987) Leukocyte-endothelial cell recognition: evidence of a common molecular mechanism shared by neutrophils, lymphocytes, and other leukocytes. <u>J Immunol. 138 (12): 4313-21.</u></li> <li>Siegelman, M.H. <i>et al.</i> (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. <u>Cell. 61 (4): 611-22.</u></li> </ol>
Storage	This product is shipped at ambient temperature. Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

	DO NOT FREEZE. 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 20487		
Regulatory	For research purposes only		

## **Related Products**

## **Recommended Negative Controls**

### RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21			
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50			
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		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 'M439721:250523'								
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