

Antibodies

Anti-Mouse CD62L (L-Selectin) Antibody, Clone MEL-14, Alexa Fluor® 488

Rat monoclonal IgG2a antibody
against mouse CD62L (L-selectin),
Alexa Fluor® 488-conjugated

Catalog #60109AD
#60109AD.1

100 µg	0.5 mg/mL
25 µg	0.5 mg/mL



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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Product Description

The MEL-14 antibody reacts with murine CD62L (L-Selectin or LECAM-1), an ~74 - 95 kDa single-chain type I glycoprotein expressed on the surface of a majority of leukocytes. CD62L is a member of the selectin protein family and mediates leukocyte-endothelial cell interactions through its association with ligands such as CD34, glyCAM-1, MAAdCAM-1, and PSGL-1. It functions to facilitate lymphocyte rolling on the vascular endothelium, trafficking of lymphocytes to the lymph nodes, and homing of lymphocytes and neutrophils to sites of inflammation. CD62L is also involved in activation-induced neutrophil aggregation. Murine CD62L is expressed on most thymocytes, the highest expression levels being found on subsets of immunocompetent or dividing progenitor cells, as well as on neutrophils, eosinophils, monocytes, and subsets of B, T, and NK cells. CD62L is rapidly cleaved and shed from lymphocytes and neutrophils upon cellular activation. Thus, the MEL-14 antibody may be used together with antibodies to other cell surface markers to distinguish naïve, memory, and effector T cells, based on differences in the expression level of CD62L. The MEL-14 antibody has been shown to block migration of lymphocytes to lymph nodes and to inhibit leukocyte rolling.

Target Antigen Name:	CD62L (L-selectin)
Alternative Names:	CD62 ligand, L-selectin, LAM-1, LECAM-1, Leu-8, Leukocyte adhesion molecule 1, Leukocyte-endothelial cell adhesion molecule 1, Ly-22, MEL-14, PIn homing receptor, PLNHR
Gene ID:	20343
Species Reactivity:	Mouse
Host Species:	Rat (F344)
Clonality:	Monoclonal
Clone:	MEL-14
Isotype:	IgG2a, kappa
Immunogen:	38C-13 B cell lymphoma derived from a C3H/eb mouse
Conjugate:	Alexa Fluor® 488

Applications

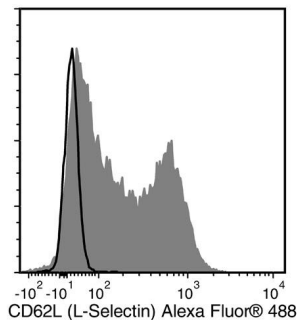
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse Naïve CD4+ T Cell Isolation Kit (Catalog #19765), EasySep™ Mouse Pan-Naïve T Cell Isolation Kit (Catalog #19848), and EasySep™ Mouse Naïve CD8+ T Cell Isolation Kit (Catalog #19858).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 0.25 µg per 1 x 10 ⁶ cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD62L (L-Selectin) Antibody, Clone MEL-14, Alexa Fluor® 488 (filled histogram) or Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, Alexa Fluor® 488 (Catalog #60076AD) (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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