### Anti-Mouse CD62L (L-Selectin) Antibody, Clone MEL-14, APC

## **Antibodies**

Rat monoclonal IgG2a antibody against mouse CD62L (L-selectin),

APC-conjugated

Catalog #60109AZ #60109AZ.1 100 μg0.2 mg/mL25 μg0.2 mg/mL



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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, MAdCAM-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, Pln homing receptor, PLNHR

Gene ID: 20343

Species Reactivity: Mouse

Host Species: Rat (F344)

Clonality: Monoclonal

Clone: MEL-14

Isotype: IgG2a, kappa

1902a, nappa

Immunogen: 38C-13 B cell lymphoma derived from a C3H/eb mouse

Conjugate: APC (Allophycocyanin)

# **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 saline, pH 7.2, containing 0.09% sodium azide and 0.1% gelatin

Purification: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The

solution is free of unconjugated APC.

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<sup>6</sup> cells in 100 µL. It is

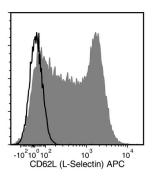
recommended that the antibody be titrated for optimal performance for each application.

#### Anti-Mouse CD62L (L-Selectin) Antibody, Clone MEL-14, APC

## **Antibodies**



### Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD62L (L-Selectin) Antibody, Clone MEL-14, APC (filled histogram) or Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, APC (Catalog #60076AZ) (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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- 13. Gallatin WM et al. (1983) A cell-surface molecule involved in organ-specific homing of lymphocytes. Nature 304(5921): 30–4. (FA/Blocking, FC, ICC, IF, IP)

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