

## Anti-Mouse CD62L (L-Selectin) APC-Cyanine7

Catalog Number :04712-87

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** MEL-14

**Format/Conjugate:** APC-Cyanine7

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

**Laser:** Red (635 -655nm)

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

**Brightness (1=dim,5=brightest):** Not Applicable

**Isotype:** Rat IgG2a, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The MEL-14 monoclonal antibody specifically reacts with L- selectin (CD62L), a receptor with lectin-like and Epidermal Growth Factor-like domains. The weight of the CD62L molecules depend on their origin: 74 kDa (on lymphocytes) or 95 kDa (on neutrophils). In the Mouse organism, CD62L can be expressed by most thymocytes, on subsets of B and T lymphocytes, monocytes, eosinophils, and neutrophils. The L-selectin binds sulfated, fucosylated, and glycosylated glycoproteins (MadCAM-1, GLYCAM-1, and CD 34). It mediates the migration of lymphocytes to the site of inflammation and their return to the peripheral lymphoid tissues and to the HEV (high endothelial venules). In vitro, L-selectin inhibits this binding and the lymphocyte extravasation into peripheral lymph nodes.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### References

1. Lanza, F., Bi, S., Castoldi, G., Goldman, J. M. (1993). Abnormal expression of N-CAM (CD56) adhesion molecule on myeloid and progenitor cells from chronic myeloid leukemia.; *Leukemia*;7(10), 1570-1575.
2. Reimann, K. A., Waite, B. C., Lee-Parritz, D. E., Lin, W., Uchanska-Ziegler, B., O'Connell, M. J., Letvin, N. L. (1994). Use of human leukocyte-specific monoclonal antibodies for clinically immunophenotyping lymphocytes of rhesus monkeys.; *Cytometry*;17(1), 102-108.
3. Carter, D. L., Shieh, T. M., Blosser, R. L., Chadwick, K. R., Margolick, J. B., Hildreth, J. E. K., ... Zink, M. C. (1999). CD56 identifies monocytes and not natural killer cells in rhesus macaques.; *Cytometry*;37(1), 41-50.