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Technical Data Sheet

Anti-MouseCD62L (L-Selectin) Purified

Catalog Number :04712-20

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

Product Information

Clone: MEL-14

Format/Conjugate: Purified

Concentration: 0.5 mg/mL

Reactivity: Mouse

Laser: Not Applicable

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, FA, IHC, IP, EM

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 Mouseorganism, 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. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Gallatin, W. M., Weissman, I. L., Butcher, E. C. (1982). A cell-surface molecule involved in organ-specific homing of lymphocytes.;Nature,;304(5921), 30-34.

2. Siegelman, M. H., Cheng, I. C., Weissman, I. L., Wakeland, E. K. (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), 611-622.

3. Pizcueta, P., Luscinskas, F. W. (1994). Monoclonal antibody blockade of L-selectin inhibits mononuclear leukocyte recruitment to inflammatory sites

in vivo.;The American journal of pathology,;145(2), 461.