BD Pharmingen™

Technical Data Sheet

Purified NA/LE Rat Anti-Mouse CD62L

Product Information

Material Number: 553147
Alternate Name: SELL; L-selectin; LECAM-1; LAM-1; Lnhr; Ly-22; Ly-m22; Lam-1
Size: 0.5 mg
Concentration: 1.0 mg/ml
Clone: MEL-14
Immunogen: C3H/eb mouse B lymphoma 38C-13
Isotype: Rat (F344) IgG2a, κ
Reactivity: QC Testing: Mouse

Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

Description

The MEL-14 monoclonal antibody specifically binds to CD62L (L-selectin), a 95 kDa (on neutrophils) or 74 kDa (on lymphocytes) receptor with lectin-like and Epidermal Growth Factor-like domains. In the mouse, L-selectin is detected on most thymocytes, with the highest levels of expression on an immune competent subset and a population of dividing progenitor cells, and on peripheral leukocytes, including subsets of B and T lymphocytes, neutrophils, monocytes, and eosinophils. This member of the selectin adhesion molecule family appears to be required for lymphocyte homing to peripheral lymph nodes and to contribute to neutrophil emigration at inflammatory sites. L-selectin is rapidly shed from lymphocytes and neutrophils upon cellular activation; metalloproteinases may mediate the release of CD62L ectodomains from the cell surface. The level of CD62L expression, along with other markers, distinguishes naive, effector, and memory T cells. L-selectin binds to sialylated oligosaccharide determinants on high endothelial venules (HEV) in peripheral lymph nodes. In vitro studies have demonstrated that CD34, GlyCAM-1, and MADCAM-1, all recognized by mAb MEC-79 (anti-mouse PNAd Carbohydrate Epitope, Cat. No. 553863), may be ligands for CD62L. MEL-14 mAb blocks in vitro binding of lymphocytes to peripheral lymph node HEV and inhibits in vivo lymphocyte extravasation into peripheral lymph nodes and late stages of leukocyte rolling.

Preparation and Storage

Store undiluted at 4°C.

Application Notes

This monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application

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<tr>
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<tr>
<td>Flow cytometry</td>
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<td>Immunohistochemistry-frozen</td>
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<td>Immunohistochemistry-formalin</td>
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Suggested Companion Products

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</thead>
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<tr>
<td>553926</td>
<td>Purified NA/LE Rat IgG2a κ Isotype Control</td>
<td>0.5 mg</td>
<td>R35-95</td>
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<tr>
<td>554016</td>
<td>FITC Goat Anti-Rat Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

References


BD Biosciences

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