Human L-Selectin/CD62L Antibody
Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF728

DESCRIPTION

Species Reactivity  Human
Specificity  Detects human L-Selectin in direct ELISAs and Western blots. In direct ELISAs, less than 15% cross-reactivity with recombinant mouse L-Selectin and recombinant rat L-Selectin is observed and less than 1% cross-reactivity with recombinant human (rh) E-Selectin and rhP-Selectin is observed.
Source  Polyclonal Sheep IgG
Purification  Antigen Affinity-purified
Immunogen  Chinese hamster ovary cell line CHO-derived recombinant human L-Selectin
Endotoxin Level  <0.10 EU per 1 µg of the antibody by the LAL method.
Formulation  Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.
*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
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<tr>
<th>Western Blot</th>
<th>Sample</th>
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<tr>
<td>0.1 µg/mL</td>
<td>Recombinant Human L-Selectin/CD62L (Catalog # ADP2)</td>
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<th>Adhesion Blockade</th>
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<td>The adhesion of LS180 human colorectal adenocarcinoma cells (1 x 10⁶ cells/well) to immobilized recombinant human L-Selectin (10 µg/mL, 100 µL/well) was maximally inhibited (80 - 100%) by 25 µg/mL of the antibody.</td>
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PREPARATION AND STORAGE

Reconstitution  Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping  The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage  Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human L-Selectin (Leukocyte Selectin, LAM-1, LECAM-1, LECCAM-1, TQ1, Leu-6, MEL-14 antigen, DREG, lymph node homing receptor, CD62L), a member of the Selectin family, is a cell surface glycoprotein expressed constitutively on a wide variety of leukocytes. Two forms of L-Selectin have been reported, apparently arising as a result of post-translational modifications. The lymphocyte form shows an apparent molecular weight of 74 kDa, while the neutrophil form is 90-100 kDa. L-Selectin plays a role in the migration of lymphocytes into peripheral lymph nodes and sites of chronic inflammation, and of neutrophils into acute inflammatory sites. Acting in cooperation with P-Selectin and E-Selectin, L-Selectin mediates the initial interaction of circulating leukocytes with endothelial cells that produces a characteristic ‘rolling’ of the leukocytes on the endothelium. This initial interaction is followed by a stronger interaction involving ICAM-1 and VCAM-1, that leads eventually to extravasation of the white blood cell through the blood vessel wall into the extracellular matrix tissue. ELISA techniques have shown that detectable levels of soluble L-Selectin are present in the biological fluids of apparently normal individuals. Furthermore, a number of studies have reported that levels of L-Selectin may be elevated or lowered in subjects with a variety of pathological conditions.