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Rat L-Selectin/CD62L Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1534

RDSYSTEMS

| DESCRIPTION | |
|--------------------|--|
| Species Reactivity | Rat |
| Specificity | Detects rat L-Selectin/CD62L in direct ELISAs and Western blots. In Western blots, approximately 20% cross-reactivity with recombinant mouse L-Selectin and 5% cross-reactivity with recombinant human L-Selectin is observed. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant rat L-Selectin/CD62L Trp39-Asn332 Accession # P30836 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. |

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. | | | | |
|---|------------------------------|--|--|--|
| | Recommended Concentration | Sample | | |
| Western Blot | 0.1 μg/mL | Recombinant Rat L-Selectin/CD62L Fc Chimera (Catalog # 1534-LS) | | |
| Immunohistochemistry | 5-15 μg/mL | See Below | | |

DATA

| Immunohistochemistry | | | | |
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L-Selectin/CD62L in Rat Thymus. L-Selectin/CD62L was detected in perfusion fixed frozen sections of rat thymus using 15 µg/mL Goat Anti-Rat L-Selectin/CD62L Antigen Affinitypurified Polyclonal Antibody (Catalog # AF1534) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

| 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. | | |
| 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. | | |

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BACKGROUND

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L-Selectin (also known as Leukocyte Selectin, LAM-1, LECAM-1, LECAM-1, TQ1, Leu-8, MEL-14 antigen, DREG, lymph node homing receptor, CD62L) is a member of the Selectin family of cell surface molecules which include E-Selectin and P-Selectin. All Selectins have an extracellular domain composed of an amino-terminal calcium-dependent lectin domain, an epidermal growth factor (EGF)-like domain, two to nine short consensus repeat (SCR) units, a transmembrane domain, and a cytoplasmic tail. L-Selectin expression is limited to hematopoietic cells, with most leukocytes expressing L-Selectin at some stage of differentiation. The majority of myeloid cells, B cells, and virgin T cells express L-Selectin, while only a sub-population of memory T cells and NK cells express L-Selectin. Lymphocytes and neutrophils exhibit a reversible loss of L-Selectin after cellular activation that results from endoproteolytic release of the extracellular portion of receptor from the cell surface. Cleavage of L-Selectin from the cell surface results in a high circulating level of functionally active soluble L-Selectin. All selectins bind sialytated and fucosylated oligosaccharides that are linked to glycoproteins and glycolipids. L-Selectin pecifically binds to at least three different heavily glycosolylated mucin-like proteins: GlyCAM-1, CD34, and MAdCAM-1. Multiple studies indicated that L-Selectin, P-Selectin cellaborate to mediate the initial binding of leukocytes to endothelium at sites of insue injury and inflammation, producing the characteristic "rolling" of leukocytes along the endothelium. L-Selectin knockout mice have relatively few lymphocytes present in peripheral lymph nodes and Peyer's patches. Short-term in vivo homing experiments in L-Selectin deficient mice demonstrate that L-Selectin is involved in lymphocyte homing to Peyer's patches and mesenteric lymph nodes in the gut. Rat and human L-Selectin share 77% amino acid sequence homology. Rat and mouse L-Selection share 83% amino acid sequence homology (1, 2).

References:

- 1. Tedder, T.F. et al. (1995) FASEB Journ. 9:866
- 2. McEver, R.P. et al. (1995) J. Biol. Chem. 270:11025.

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