

Recombinant Rat L-Selectin/CD62L Protein (His Tag)

RPES8534



Product Information

Product SKU: RPES8534	Expression Host: Mammalian	Size: 20µg
Tag: C-His	Reactivity: Rat	Accession: P30836

Additional Information

Calculated MW: 29.3 kDa	Observed MW: 55-60 kDa
Sequence: Trp39-Asn332	

Protein Information

Background: L-selectin (SELL), also known as CD62L, is a key adhesion molecule that regulates both the migration of leukocytes at sites of inflammation and the recirculation of lymphocytes between blood and lymphoid tissues. It belongs to the selectin family of proteins, and consisting of a large, highly glycosylated, extracellular domain, a single spanning transmembrane domain and a small cytoplasmic tail. L-selectin is the only selectin expressed on leukocytes and mediates a number of leukocyte-endothelial interactions. L-selectin acts as a "homing receptor" for leukocytes to enter secondary lymphoid tissues via high endothelial venules. Ligands present on endothelial cells will bind to leukocyte expressing L-selectin, slowing leukocyte trafficking through the blood, and facilitating entry into a secondary lymphoid organ at that point. L-selectin-mediated lymphocyte recirculation is required for maintaining the appropriate tissue distribution of lymphocyte subpopulations including naïve and effector subsets such as regulatory T cells. In addition, L-selectin-mediated entry into peripheral lymph nodes is required for optimal induction of lymphocyte homeostatic proliferation during lymphopenia. Importantly, L-selectin has been shown to have both adhesive and signaling functions during leukocyte migration. L-selectin has also been shown to mediate leukocyte recruitment during chronic inflammatory and autoimmune diseases and thus is a potential therapeutic target for drug development.

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Synonyms:	Leukocyte-endothelial cell adhesion molecule, LECAM, CD62 antigen-like family member L, CD62L, LAM1, LAM-1, LECAM1, LEU8, Leu-8, Leukocyte adhesion molecule 1 (LAM-1), Leukocyte-endothelial cell adhesion molecule 1, LSEL, L-selectin, Lyam-1, Lymph node homing receptor, Lymphocyte antigen 22 (Ly-22), Lymphocyte surface MEL-14 antigen, PLNHR, TQ1, Lnh, Ly-22, Sell, LYAM1, LECAM1, Leu-8
Endotoxin:	< 1.0 EU/mg of the protein as determined by the LAL method
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Purity:	> 90% as determined by reducing SDS-PAGE.
Bio-Activity:	Not validated for activity
Storage:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.