



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	ELISA(Cap)
Clone number:	PSH16-74

Description: L-selectin, also known as CD62L, is a cell adhesion molecule found on the cell surface of leukocytes, and the blastocyst. It is coded for in the human by the SELL gene. L-selectin belongs to the selectin family of proteins, which recognize sialylated carbohydrate groups containing a Sialyl LewisX (sLeX) determinant. L-selectin plays an important role in both the innate and adaptive immune responses by facilitating leukocyte-endothelial cell adhesion events. These tethering interactions are essential for the trafficking of monocytes and neutrophils into inflamed tissue as well as the homing of lymphocytes to secondary lymphoid organs. L-selectin is also expressed by lymphoid primed hematopoietic stem cells and may participate in the migration of these stem cells to the primary lymphoid organs. In addition to its function in the immune response, L-selectin is expressed on embryonic cells and facilitates the attachment of the blastocyst to the endometrial endothelium during human embryo implantation. L-selectin is composed of multiple structural regions: an N-terminus C-type lectin domain, an adjacent epidermal growth factor-like domain, two to the consensus repeat units homologous to those found in C3/C4-binding proteins, an extracellular cleavage site, a short transmembrane domain, and a cytoplasmic tail. It is cleaved by ADAM17.

Immunogen: Recombinant protein within Mouse L-Selectin / CD62L aa 39-332 (HA211126).

Positive control: Recombinant Mouse L-Selectin / CD62L protein (HA211126).

Subcellular location: Cell membrane.

Database links: SwissProt: P18337 Mouse

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH16-73] to Mouse L-Selectin / CD62L antibody (Detector) (HA723875) and Recombinant Mouse L-Selectin / CD62L protein (HA211126) as the standard. The reference range value is 15.6-4,000 pg/mL.

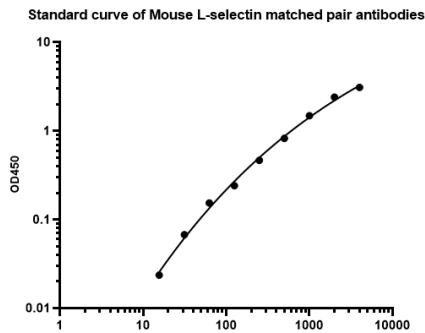
Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

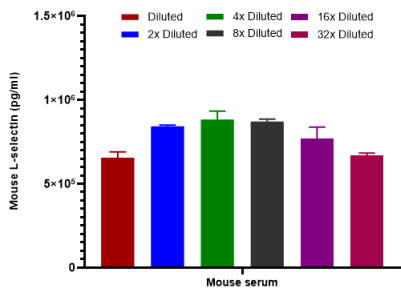
Fig1: Sandwich ELISA analysis of Mouse L-Selectin / CD62L matched pair antibodies

Capture: HA723876, Mouse L-Selectin / CD62L Rabbit mAb [PSH16-74]
Detector: HA723875, Mouse L-Selectin / CD62L Rabbit mAb [PSH16-73]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723876) diluted in carbonate/bicarbonate buffer, at a concentration of 5 μ g/mL overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Mouse L-Selectin / CD62L protein (HA211126) starting from 4,000 pg/ml to 0 pg/ml and detect antibody (HA723875, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Fig2: Interpolated concentrations of native L-selectin in mouse serum .



Capture: HA723876, Mouse L-Selectin / CD62L Rabbit mAb [PSH16-74]
Detector: HA723875, Mouse L-Selectin / CD62L Rabbit mAb [PSH16-73]

Interpolated concentration of native L-selectin was measured in duplicate at different sample concentrations and interpolated from the L-selectin standard curves. The interpolated dilution factor corrected values were plotted (mean +/- SD, n=2). The mean L-selectin concentration was determined to be 771,994 pg/ml in mouse serum.

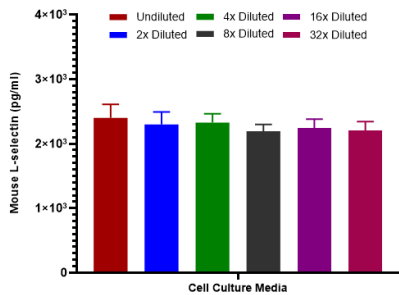


Fig3: Interpolated concentrations of spiked L-selectin in cell culture media samples.

Capture: HA723876, Mouse L-Selectin / CD62L Rabbit mAb [PSH16-74]

Detector: HA723875, Mouse L-Selectin / CD62L Rabbit mAb [PSH16-73]

The concentrations of L-selectin were measured in duplicates, interpolated from the L-selectin standard curves and corrected for sample dilution. diluted samples are as follows: 50% cell culture media with FBS. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Vultaggio A et al. Blood CD62L(low) inflammatory eosinophils are related to the severity of asthma and reduced by mepolizumab. Allergy. 2023 Dec

2. Ito Y et al. CD62L expression level determines the cell fate of myeloid progenitors. Stem Cell Reports. 2021 Dec

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation