Anti-CD62L Antibody [PSH14-92] - BSA and Azide free

HA751536

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	FC, IF-Cell
Molecular Wt:	Predicted band size: 42 kDa
Clone number:	PSH14-92

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 human CD62L aa 1-332.

Positive control: Jurkat.

Subcellular location: Cell membrane.

Database links: SwissProt: P14151 Human

Recommended Dilutions:

FC	1:1,000
IF-Cell	1:50

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.

Images

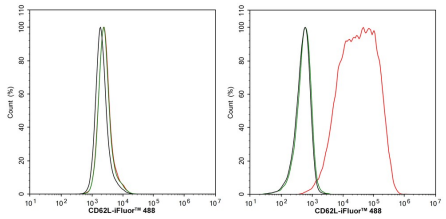

Fig1: Flow cytometric analysis of 293T (left, negative) and Jurkat (right, positive) cells labeling CD62L.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA751536, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

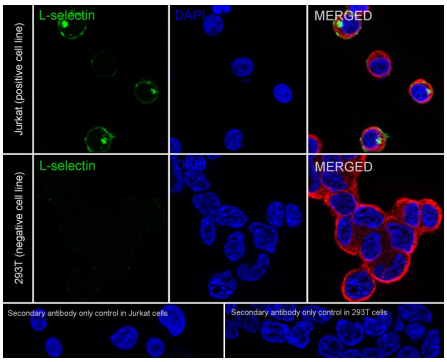

Fig2: Immunocytochemistry analysis of Jurkat (positive) and 293T (negative) labeling CD62L with Rabbit anti-CD62L antibody (HA751536) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-CD62L antibody (HA751536) at 1/50 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (HA601187, red) was stained at 1/100 dilution overnight at +4℃. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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