

TECHNICAL DATA SHEET

CyFlow™ CD62L PE Anti-Hu; Clone LT-TD180

REF BC474812

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD62L
Alternative Names	L-selectin
Clone	LT-TD180
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Peripheral blood leukocytes

Specificity

The mouse monoclonal antibody LT-TD180 recognizes CD62L antigen, a 74-95 kDa single chain type I glycoprotein expressed on most peripheral blood B lymphocytes, T lymphocytes, monocytes and granulocytes; it is also present on a subset of NK cells and certain hematopoietic malignant cells.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD62L (L-selectin) is an adhesion glycoprotein that is constitutively expressed on the cell surface of leukocytes and mediates their homing to inflammatory sites and peripheral lymph nodes by enabling rolling along the venular wall. CD62L is also involved in activation-induced neutrophil aggregation. Activation-dependent CD62L shedding, however, counteracts neutrophil rolling. CD62L has also signaling roles including enhance of chemokine receptor expression. Similarly to CD62P, the major ligand of CD62L is PSGL-1 (P-selectin glycoprotein ligand-1). The level of CD62L expression can be used to help distinguish naive T cells from effector/memory T cells.

References

- Von Andrian UH, Hansell P, Chambers JD, Berger EM, Torres Filho I, Butcher EC, Arfors KE: L-selectin function is required for beta 2-integrin-mediated neutrophil adhesion at physiological shear rates in vivo. Am J Physiol. 1992 Oct; 263(4-2):H1034-44. < PMID: 1384360 >
- von Andrian UH, Chambers JD, Berg EL, Michie SA, Brown DA, Karolak D, Ramezani L, Berger EM, Arfors KE, Butcher EC: L-selectin mediates neutrophil rolling in inflamed venules through sialyl LewisX-dependent and -independent recognition pathways. Blood. 1993 Jul 1; 82(1):182-91. < PMID: 7686786 >

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

- Simon SI, Burns AR, Taylor AD, Gopalan PK, Lynam EB, Sklar LA, Smith CW: L-selectin (CD62L) cross-linking signals neutrophil adhesive functions via the Mac-1 (CD11b/CD18 beta 2-integrin. J Immunol. 1995 Aug 1; 155(3):1502-14. < PMID: 7543524 >
- Ding Z, Issekutz TB, Downey GP, Waddell TK: L-selectin stimulation enhances functional expression of surface CXCR4 in lymphocytes: implications for cellular activation during adhesion and migration. Blood. 2003 Jun 1; 101(11):4245-52. < PMID: 12609846 >
- Ramachandran V, Williams M, Yago T, Schmidtke DW, McEver RP: Dynamic alterations of membrane tethers stabilize leukocyte rolling on P-selectin. Proc Natl Acad Sci USA. 2004 Sep 14; 101(37):13519-24. < PMID: 15353601 >
- Simone R, Zicca A, Saverino D: The frequency of regulatory CD3+CD8+CD28- CD25+ T lymphocytes in human peripheral blood increases with age. J Leukoc Biol. 2008 Dec; 84(6):1454-61. < PMID: 18780874 >
- Kuttruff S, Koch S, Kelp A, Pawelec G, Rammensee HG, Steinle A: NKp80 defines and stimulates a reactive subset of CD8 T cells. Blood. 2009 Jan 8; 113(2):358-69. < PMID: 18922855 >
- Linnebacher M, Wienck A, Boeck I, Klar E: Identification of an MSI-H tumor-specific cytotoxic T cell epitope generated by the -1 frame of U79260(FTO). J Biomed Biotechnol. 2010; 2010:841451. < PMID: 20339516 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com