

TECHNICAL DATA SHEET

CyFlow™ CD162 PE Anti-Hu; Clone TC2

REF BU871462



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For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD162
Alternative Names	PSGL1, PSGL-1
Clone	TC2
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human thymocytes

Specificity

The mouse monoclonal antibody TC2 recognizes CD162 antigen, a 220 kDa type I integral membrane protein expressed as disulfide-linked homodimer (sialomucin family). CD162 is present on the most peripheral blood T lymphocytes, monocytes, granulocytes; it is also expressed on a subpopulation of B lymphocytes and CD34+ bone marrow cells.

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 0.09% (w/v) sodium azide and 0.2% (w/v) BSA.

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

CD162 (PSGL-1; P-selectin glycoprotein ligand-1) is a sialomucin constitutively expressed as a disulfide-linked homodimer of two 120 kDa subunits on the surface of circulating leukocytes. CD162 serves as a ligand for P- E- and L-selectin, with the highest affinity for P-selectin. It is thus involved in leukocyte rolling at the endothelial surfaces, prerequisite for firm leukocyte adhesion and subsequent transendothelial migration. CD162 also mediates leukocyte-platelet adhesion and interleukocyte contacts. Whereas serving as an adhesion molecule on mature leukocytes, CD162 is a potent negative regulator of human hematopoietic progenitors.

Warnings











Non-Hazardous Statement: This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.

Safety Data Sheet Statement: Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet (SDS). SDS are available at <http://www.sysmex-partec.com/services>, or at <https://us.sysmex-flowcytometry.com/> (U.S. customers only).

References

- Moore KL: Structure and function of P-selectin glycoprotein ligand-1. Leuk Lymphoma. 1998 Mar; 29(1-2):42005. < PMID: 9638971 >
- Lévesque JP, Zannettino AC, Pudney M, Niutta S, Haylock DN, Snapp KR, Kansas GS, Berndt MC, Simmons PJ: PSGL-1-mediated adhesion of human hematopoietic progenitors to P-selectin results in suppression of hematopoiesis. Immunity. 1999 Sep; 11(3):369-78. < PMID: 10514015 >
- Davenpeck KL, Brummet ME, Hudson SA, Mayer RJ, Bochner BS: Activation of human leukocyte reduces surface P-selectin glycoprotein ligand-1 (PSGL-1, CD162 and adhesion to P-selectin in vitro. J Immunol. 2000 Sep 1; 165(5):2764-72. < PMID: 10946308 >
- Mason D, Simmons D, Buckley C, Schwartz-Albiez R, Hadam M, Saalmuller A, Clark E, Malavasi F, Morrissey JA (Eds): Leucocyte Typing VII. Oxford University Press. 2002; 1-945. < NLM ID: 101177131 >
- Marsik C, Mayr F, Cardona F, Schaller G, Wagner OF, Jilma B: Endotoxin down-modulates P-selectin glycoprotein ligand-1 (PSGL-1, CD162) on neutrophils in humans. J Clin Immunol. 2004 Jan; 24(1):62-5. < PMID: 14997035 >

Symbols

	Reference number		Contains sufficient for <n> tests
	For research use only		Temperature limit
	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use-by date		Unique device identifier