

TECHNICAL DATA SHEET

CyFlow™ CD162 APC Anti-Hu; Clone TC2

REF CY848695

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	APC
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

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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 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 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

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.

References

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- 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 >

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

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