

1P-603-T100

Monoclonal Antibody to CD162 Phycoerythrin (PE) conjugated (100 tests)

Clone:	TC2
Isotype:	Mouse IgG1
Specificity:	The antibody TC2 reacts with CD162, 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.
Regulatory Status:	RUO
Immunogen:	Human thymocytes
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD162 (P-selectin glycoprotein ligand-1, PSGL-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.

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Antibodies

- References:**
- *Moore KL: Structure and function of P-selectin glycoprotein ligand-1. *Leuk Lymphoma*. 1998 Mar;29(1-2):1-15.
 - *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.
 - *Davenpeck KL, Brummet ME, Hudson SA, Mayer RJ, Bochner BS: Activation of human leukocytes 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.
 - *Leukocyte Typing VII., Mason D. et al. (Eds.), Oxford University Press (2002).
 - *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.

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