

## TECHNICAL DATA SHEET

### CyFlow™ CD162 Purified Anti-Hu; Clone TC2

**REF** AV235066

**For Research Use Only.**  
**Not for use in diagnostic or therapeutic procedures.**

### Specifications

|                                    |                    |
|------------------------------------|--------------------|
| <b>Antigen</b>                     | CD162              |
| <b>Alternative Names</b>           | PSGL1, PSGL-1      |
| <b>Clone</b>                       | TC2                |
| <b>Clonality</b>                   | monoclonal         |
| <b>Format</b>                      | Purified           |
| <b>Host / Isotype</b>              | Mouse / IgG1       |
| <b>Species Reactivity</b>          | Human              |
| <b>Negative Species Reactivity</b> | —                  |
| <b>Quantity [Concentration]</b>    | 0.1 mg [ 1 mg/ml ] |
| <b>Immunogen</b>                   | 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

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry

## Storage Buffer

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

## Storage and Stability

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| <b>Storage</b>   | Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze. |
| <b>Stability</b> | 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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- 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 >

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- 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 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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