

## TECHNICAL DATA SHEET

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

**REF** AZ840692

**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                      | FITC             |
| 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 20 µl reagent / 100 µl of whole blood or 10<sup>6</sup> 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

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| <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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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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