

## TECHNICAL DATA SHEET

### CyFlow™ CD180 PE Anti-Hu; Clone G28-8

**REF** BJ916358

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

### Specifications

|                                    |                         |
|------------------------------------|-------------------------|
| <b>Antigen</b>                     | CD180                   |
| <b>Alternative Names</b>           | RP105, Bgp95, Ly64      |
| <b>Clone</b>                       | G28-8                   |
| <b>Clonality</b>                   | monoclonal              |
| <b>Format</b>                      | PE                      |
| <b>Host / Isotype</b>              | Mouse / IgG1            |
| <b>Species Reactivity</b>          | Human                   |
| <b>Negative Species Reactivity</b> | —                       |
| <b>Quantity</b>                    | 100 tests               |
| <b>Immunogen</b>                   | Human tonsillar B cells |

### Specificity

The mouse monoclonal antibody G28-8 recognizes CD180 antigen, a 95-105 kDa TLR-like glycoprotein expressed on peripheral blood monocytes and dendritic cells, mantle zone B cells and marginal zone B cells, but very weakly on germinal center B cells.

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## 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

CD180 (RP105, Bgp95, LY64) is a type I membrane glycoprotein of Toll-like receptor (TLR) family. Its cytoplasmic tail is short and unlike the TLRs, it lacks the TIR domain. CD180 expression is dependent on the coexpression of its helper molecule, MD-1, and mirrors that of TLR4 on antigen-presenting cells. CD180 regulates recognition of LPS and signaling in B cells, via interacting directly with the TLR4 signaling complex, inhibiting its ability to bind microbial ligands. Ligation of CD180 by monoclonal antibodies leads to B cell activation, upregulation of CD80/CD86, and increase in cell size.

## 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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