

## TECHNICAL DATA SHEET

### CyFlow™ CD88 PE Anti-Hu; Clone S5/1

**REF** AH752120

**For Research Use Only.**

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

### Specifications

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| <b>Antigen</b>                     | CD88                                                       |
| <b>Alternative Names</b>           | C5aR                                                       |
| <b>Clone</b>                       | S5/1                                                       |
| <b>Clonality</b>                   | monoclonal                                                 |
| <b>Format</b>                      | PE                                                         |
| <b>Host / Isotype</b>              | Mouse / IgG2a                                              |
| <b>Species Reactivity</b>          | Human, Cow   Ferret   Rabbit                               |
| <b>Negative Species Reactivity</b> | —                                                          |
| <b>Quantity</b>                    | 100 tests                                                  |
| <b>Immunogen</b>                   | Recombinant N-terminal peptide (Asp15-Asp27) of human C5aR |

### Specificity

The mouse monoclonal antibody S5/1 recognizes the CD88 antigen, a 43 kDa receptor of C5a component of the complement cascade.

#### Contact Information:

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## 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 10<sup>6</sup> 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

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

CD88 (C5aR) is a G protein-coupled seven membrane-spanning protein serving as a receptor for C5a component of the complement cascade, and is expressed mainly by monocytes, macrophages, neutrophils, eosinophils, and mast cells, but also e.g. by hepatocytes, glial cells, vascular endothelial cells, or cardiomyocytes. The binding of C5a to CD88 is associated with inflammatory response, including superoxide anion production, chemotaxis, and increased production of acute phase proteins. Expression of CD88 on synovial mast cells and their C5a-mediated degranulation plays a role in pathogenesis of rheumatoid arthritis.

## References

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- Cain SA, Monk PN: The orphan receptor C5L2 has high affinity binding sites for complement fragments C5a and C5a des-Arg(74). *J Biol Chem.* 2002 Mar 1; 277(9):7165-9. < PMID: 11773063 >
- Conway Morris A, Kefala K, Wilkinson TS, Dhaliwal K, Farrell L, Walsh T, Mackenzie SJ, Reid H, Davidson DJ, Haslett C, Rossi AG, Sallenave JM, Simpson AJ: C5a mediates peripheral blood neutrophil dysfunction in critically ill patients. *Am J Respir Crit Care Med.* 2009 Jul 1; 180(1):19-28. < PMID: 19324972 >

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- Camous L, Roumenina L, Bigot S, Brachemi S, Frémeaux-Bacchi V, Lesavre P, Halbwachs-Mecarelli L: Complement alternative pathway acts as a positive feedback amplification of neutrophil activation. Blood. 2011 Jan 27; 117(4):1340-9. < PMID: 21063021 >

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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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