

## TECHNICAL DATA SHEET

### **CyFlow™ CD15 FITC** **Anti-Hu; Clone MEM-158**

**REF** CM349973

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

### Specifications

|                                    |                    |
|------------------------------------|--------------------|
| <b>Antigen</b>                     | CD15               |
| <b>Alternative Names</b>           | Lewis X            |
| <b>Clone</b>                       | MEM-158            |
| <b>Clonality</b>                   | monoclonal         |
| <b>Format</b>                      | FITC               |
| <b>Host / Isotype</b>              | Mouse / IgM        |
| <b>Species Reactivity</b>          | Human              |
| <b>Negative Species Reactivity</b> | Pig   Cow   Sheep  |
| <b>Quantity</b>                    | 100 tests          |
| <b>Immunogen</b>                   | Human granulocytes |

### Specificity

The antibody MEM-158 recognizes CD15 antigen, a cell membrane molecule 3-fucosyl-N-acetyllactosamine (3-FAL) strongly expressed on granulocytes, monocytes, macrophages, mast cells; it is also present on Langerhans cells and some myeloid precursors cells.

#### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

## 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 Tris buffered saline (TBS) solution, pH ≈8.0, 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

CD15 (Le(x); Lewis x or SSEA-1; stage specific embryonic antigen-1) is a trisaccharide determinant (3-fucosyl-N-acetylglucosamine) expressed on several glycolipids, glycoproteins and proteoglycans of various cell types, e.g. granulocytes, mast cells, monocytes, macrophages, cells of gastric mucosa, nervous system or various tumor cells. There are several variants of Lewis x, such as sialyl-Lewis x or sulphated Lewis x. Cells with high surface expression of Le(x) antigen exhibit strong self-aggregation, based on calcium-dependent Le(x)-Le(x) interaction. This process is involved for example in embryo compaction or in autoaggregation of teratocarcinoma cells. Sialyl-Le(x) and its isomer sialyl-Le(a) are ligands of selectins. CD15 expression has been extensively used to confirm diagnosis of Hodgkin's disease.

## References

- Hakomori S: Le(X) and related structures as adhesion molecules. Histochem J. 1992 Nov; 24(11):771-6. < PMID: 1362193 >
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- Benharroch D, Dima E, Levy A, Ohana-Malka O, Ariad S, Prinsloo I, Mejirovsky E, Sacks M, Gopas J: Differential expression of sialyl and non-sialyl-CD15 antigens on Hodgkin-Reed-Sternberg cells: significance in Hodgkin's disease. Leuk Lymphoma. 2000 Sep; 39(1-2):185-94. < PMID: 10975398 >
- Li C, Wong P, Pan T, Xiao F, Yin S, Chang B, Kang SC, Ironside J, Sy MS: Normal cellular prion protein is a ligand of selectins: binding requires Le(X) but is inhibited by sLe(X). Biochem J. 2007 Sep 1; 406(2):333-41. < PMID: 17497959 >

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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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