



Antibodies

T8-138-T100

## Monoclonal Antibody to CD15 PE-Cy™5 conjugated (100 tests)

<b>Clone:</b>	MMA
<b>Isotype:</b>	Mouse IgM
<b>Specificity:</b>	The mouse monoclonal antibody MMA reacts with CD15, 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. This antibody is a superior reagent for identifying of Hodgkin's lymphoma.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	U937 histiocytic lymphoma cells
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with tandem dye PE-Cy™5 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD15 (Lewis X, Le(x); stage specific embryonic antigen-1, SSEA-1) is a trisaccharide determinant (3-fucosyl-N-acetyllactosamine) 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 tumour 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.

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

- References:**
- \*Pellegrini W, Bresciani G, De Zorzi A, Marocolo D, Ungari M, Facchetti F: MMA monoclonal antibody is a superior anti-CD15 reagent for the diagnosis of classical Hodgkin's lymphoma? *Haematologica*. 2007 May;92(5):708-9.
  - \*Capela A, Temple S: LeX is expressed by principle progenitor cells in the embryonic nervous system, is secreted into their environment and binds Wnt-1. *Dev Biol*. 2006 Mar 15;291(2):300-13.
  - \*Mao XG, Zhang X, Xue XY, Guo G, Wang P, Zhang W, Fei Z, Zhen HN, You SW, Yang H: Brain Tumor Stem-Like Cells Identified by Neural Stem Cell Marker CD15. *Transl Oncol*. 2009 Dec;2(4):247-57.
  - \*Chaubey S, Wolfe JH: Transplantation of CD15-enriched murine neural stem cells increases total engraftment and shifts differentiation toward the oligodendrocyte lineage. *Stem Cells Transl Med*. 2013 Jun;2(6):444-54.

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