

11-138-C100

Monoclonal Antibody to CD15 Purified Antibody (0.1 mg)

Clone:	MMA
Isotype:	Mouse IgM
Specificity:	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.
Regulatory Status:	RUO
Immunogen:	U937 histiocytic lymphoma cells
Species Reactivity:	Human
Application:	Flow Cytometry Immunohistochemistry (paraffin sections) Immunohistochemistry (frozen sections) Immunocytochemistry
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by precipitation and chromatography
Concentration:	1 mg/ml
Storage Buffer:	Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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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