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SM3010F Monoclonal Antibody to CD15 - FITC Lacto-N-Fucopentaose III, Lewis X, SSEA1, Stage-Specific Embryonic Antigen, X-Alternate names: Hapten 100 Tests **Quantity: Background:** CD15 (Lewis X, Le(x); stage specific embryonic antigen-1, SSEA-1) is a trisacharide 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. Host / Isotype: Mouse / IgM **Recommended Isotype** SM13F **Controls:** Clone: **MEM-158** Immunogen: Human granulocytes Format: State: Liquid purified lg fraction Buffer System: Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent **Label:** FITC – Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated **Applications:** Suitable for Flow cytometry (Use 20 μ l to label 10e6 cells or 100 μ l whole blood). Other applications not tested. Optimal dilutions are dependent on conditions and

Specificity:The antibody 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.
Species: Human.
Other species not tested.

Storage:Store the antibody undiluted at 4-8°C. DO NOT FREEZE! This product is photosensitive
and should be protected from light. Should it contain a precipitate we recommend
microcentrifugation before use. Shelf life: one year from despatch.General Readings:1. 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.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

2000 Sep;39(1-2):185-94.

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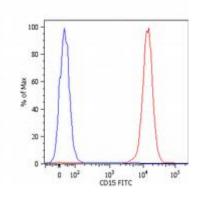
2. Hakomori S: Le(X) and related structures as adhesion molecules. Histochem J. 1992 Nov;24(11):771-6.

3. 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.

4. Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

Pictures:

Surface staining of human peripheral blood cells with anti-human CD15 (MEM-158) FITC. Cells in the granulocyte gate were used for analysis.



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