

CD22, B-cells, FITC-conjugated, clone RFB4 Monoclonal Antibody

Catalog No.: MON1042F

Quantity: 0.5 ml

Specificity

The antibody reacts with the CD22 antigen. CD22 is a heterodimer consisting out of 2 glycoproteins (130 and 140 kD). The molecule is involved in signal transduction in B-cells activated via surface Ig. CD22 is in principle a B lineage antigen that is present in the cytoplasm of progenitor B cells and on the membrane of the majority of mature peripheral B- lymphocytes. Furthermore, it is strongly expressed on Hairy Cell Leukemia cells and very weakly on some other leukemias.

Antigen distribution:

Peripheral blood lymphocytes	123%
T-cells (E ⁺)	< 1%
B-cells (E ⁺ , Ig ⁺)	923%
Monocytes (CD14 ⁺)	< 1%
Granulocytes	< 1%
Thymocytes	< 1%

Immunoglobulin type

Murine IgG_{2a}

Use

For flow cytometry (F/P Ratio : 3-5) and on frozen sections with immunohistochemistry.

It can be used for:

- Quantitative determination of peripheral B-cells (CD22⁺) in blood.
- Identification of CD22⁺-cells in tissue sections.
- Determination of B-cell origin of lymphoid neoplasms.
- Quantitative elimination or isolation of B-cells by flow cytometry or magnet beads.

Instructions for use

This antibody has been titred for application in flow cytometry. 5 µl is the maximum amount of reagent required for 1 x 10⁶ cells. Lesser amounts of antibody may be sufficient and it is recommended that the customer determine the optimum amount of antibody for each application. It is also useful for staining of frozen sections by direct fluorescence or by immuno-chemical techniques. The antibody does not react with standard treated paraffin embedded tissue.

Isotype Controls

It is recommended that Monosan isotype controls be used since they have been conjugated using the same protocols as for the monoclonal antibodies: Mouse IgG₁ FITC Code M101

Presentation

100 µg / 0.5 ml antibody solution containing sodium-azide. A highly purified grade of BSA has been added as a stabilizing protein to bring the final protein concentration to 4-5 mg/ml.

Literature

- Leucocyte Typing IV, ed. W. Knapp et al., Oxford University Press, Oxford 1989, 4th Workshop, Nr. B226.



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Storage & Handling

Store at 2-8°C for short term (3 months), and at -20°C for long term storage.

Aliquot and avoid repeated freezing and thawing. Fluorochrome conjugates should be stored in the dark and direct exposure to light should be avoided during handling and cell staining.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.



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