

CD23, IgE, Fcε RII, FITC-conjugated, clone Tü 1 Monoclonal Antibody

Catalog No.: MON1043F

Quantity: 0.5 ml

Specificity

The antibody reacts with the B cell differentiation antigen CD23, a 45-50 kD glycoprotein. This antigen acts as a low affinity IgE receptor (Fc epsilon R). The antibody reacts with a subpopulation of B-lymphocytes in peripheral blood and also in frozen sections of lymphoid tissues. In lymphoid tissues the antibody stains also a fraction of follicular dendritic reticulum cells and on activated B-lymphocytes a higher fraction of positive cells is found.

Antigen distribution:

Peripheral blood lymphocytes	5±3%
T-cells (E ⁺)	< 1%
B-cells (E ⁻ , Ig ⁺)	28±3%
Monocytes (CD14 ⁺)	< 1%
Granulocytes	< 1%
NK-cells (CD16 ⁺)	< 1%
Thymocytes	< 1%

Immunoglobulin type

Murine IgG₁

Use

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

It can be used for:

- Determination of CD23⁺ B cells in blood.
- Identification of CD23⁺ cells in tissue sections.
- Characterization of B cell lymphomas.

Instructions for use

This antibody can be used for immunofluorescence of cells in suspension both by microscopy and flow cytometry. 5 µl is the maximum amount of reagent required for 1 x 10⁶ cells for flow cytometry. 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 indirect fluorescence or by immunochemical 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 with sodium azide. Final protein concentration was brought to 4-5 mg/ml using high grade BSA as stabilizing protein.



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Literature

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