

anti-human CD10 PE-conjugated

PE -conjugated monoclonal antibody 4F9 to human CD10

Cat-No: **21330104**

500 µl

Clone: 4F9

Specificity:

This clone has been derived from hybridization of SP2/0 cells with spleen cells of a BALB/c x A/J mouse immunized with cells of a patient with Acute Lymphocytic Leukaemia of the c-ALL type. This antibody was submitted to CD10 in the Third International Workshop on Human Leukocyte Differentiation Antigens. The monoclonal antibody is directed against the CD10-antigen (CALLA antigen), which is expressed on subset of precursor B cells, subset of B cells (follicular center cells), subset of cortical thymocytes and granulocytes (molecular mass 100 kDa). The antibody reacts with early B lymphocytes (stem cell, pre B) and with the stem cell of the lymphocyte lineage and immature thymocytes. Lymphoblasts of a patient with an Acute Lymphocytic Leukaemia of the c-ALL type were found to be positive. Normal B and T lymphocytes, monocytes and platelets were found to be negative.

Isotype subclass: Mouse IgG2a

Form:

The antibody was purified from ascites or tissue culture medium using column chromatography. (ion exchange and/or affinity chromatography). Conjugated with R-phycoerythrin (PE). Molecular F/P ratio is between 1.0 - 2.0.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.4).

Storage conditions:

Store at 4 °C. Avoid prolonged exposure to light. The reagent is stable until the expiry date stated on the vial label.

Application:

Characterisation of non-T (common) Acute Lymphoblastic Leukaemia. Analysis of early stages of haemopoietic differentiation. Methods: Direct immunofluorescence staining with analysis by flowcytometry or fluorescence microscopy.

References:

Reinherz, E.L., Haynes, B.F., Nadler, L.M., Bernstein, I.D., Leukocyte Typing II, Springer Verlag, 2, New York, 1985

Warning:

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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