

Mouse Anti Human CD22 FITC

PRODUCT INFORMATION

CLONE: HIB22
ISOTYPE: Mouse IgG1
WS.No.: V CD22.14
CATALOG#: A6422/A6432
CONTENTS: FITC conjugated antibody buffered in 10mM PBS (pH 7.0) with 0.05% NaN₃ and 1% BSA.

DESCRIPTION

CD22 McAb recognizes a 130-140 KD type I transmembrane glycoprotein which is a B cell restricted antigen. CD22 antigen is expressed in the cytoplasm of pro-B cells and pre-B cells, and on the surface of mature B lymphocytes. After activation, the level of CD22 antigen expression is increased, and is lost during the terminal stage of B cell differentiation. Most B cell leukemias and lymphomas also express CD22 antigen which is absent from T cells, monocytes and granulocytes. Detecting the cytoplasmic CD22 antigen is valuable for diagnosing precisely early B-ALL. Also CD22 is one of the important markers to diagnose hairy-cell leukemia (HCL). CD22 antigen is an adhesion molecule and may augment the signal of B cell activation. The ligands for CD22 are CD45RO antigen on T cells and CD75 antigen on B cells participating in the homotypic interaction of T and B cells.

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with FITC under optimum conditions.

USAGE

The FITC conjugation is tested for flow cytometric analysis using 20 μ l/10⁶ cells or 100 μ l peripheral blood cells.

STORAGE

Store at 4°C, should not be frozen and avoid prolonged exposure to light.

REFERENCES

Schlossman, S., L. Bloumsell, W. Gilks, et al., eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. P: 492, 523-527 Oxford University Press, New York.

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