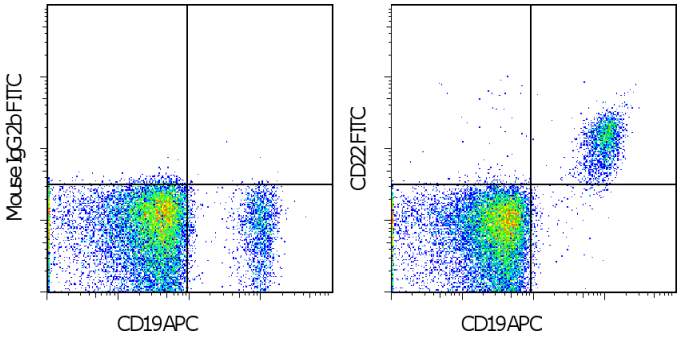
Anti-Human CD22 FITC

Catalog Number: 11-4229
Also known as: siglec2, siglec 2
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD19 APC (cat. 17-0199) and Mouse IgG2b kappa Isotype Control FITC (cat. 11-4732) (left) or Anti-Human CD22 FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD22 FITC
REF **Catalog Number:** 11-4229
Clone: S-HCL-1
Concentration: 5 uL (0.25 ug)/test
Host/Isotype: Mouse IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

The S-HCl-1 monoclonal antibody recognizes human CD22 (Siglec-2), which is a member of the siglec subgroup of the Ig superfamily. CD22 is a type I transmembrane glycoprotein composed of two polypeptide chains, CD22a and CD22ß, of 130 and 140 kDa respectively, produced by alternative splicing of the CD22 gene. CD22 is expressed at high levels on mature B cells and B cell lymphomas. The extracellular portion of CD22 contains seven Ig-like domains, some of which are capable of binding ligands with sialic acid moieties expressed on epithelial, endothelial, B and T cells. The intracellular portion of CD22 contains 6 tyrosine residues contained within immunotyrosine-based inhibitory motifs (ITIM) and immunotyrosine-based activation-like motifs, which are phosphorylated upon B-cell receptor engagement, which enables CD22 to participate in the positive and negative regulation of B-cell receptor signaling.

Applications Reported

This S-HCL-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This S-HCL-1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Nitschke L. The role of CD22 and other inhibitory co-receptors in B-cell activation. Curr Opin Immunol. 2005 Jun;17(3):290-7. Review.

Foon KA, Todd RF 3rd. Immunologic classification of leukemia and lymphoma. Blood. 1986 Jul;68(1):1-31. (S-HCL-1, FC)

Schwarting R, Stein H, Wang CY. The monoclonal antibodies alpha S-HCL 1 (alpha Leu-14) and alpha S-HCL 3

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(alpha Leu-M5) allow the diagnosis of hairy cell leukemia. Blood. 1985 Apr;65(4):974-83.(S-HCL-1, FC)

Campana D, Janossy G, Bofill M, Trejdosiewicz LK, Ma D, Hoffbrand AV, Mason DY, Lebacq AM, Forster HK. Human B cell development. I. Phenotypic differences of B lymphocytes in the bone marrow and peripheral lymphoid tissue. J Immunol. 1985 Mar;134(3):1524-30.

Related Products
11-4732 Mouse IgG2b K Isotype Control FITC
17-0199 Anti-Human CD19 APC (HIB19)

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