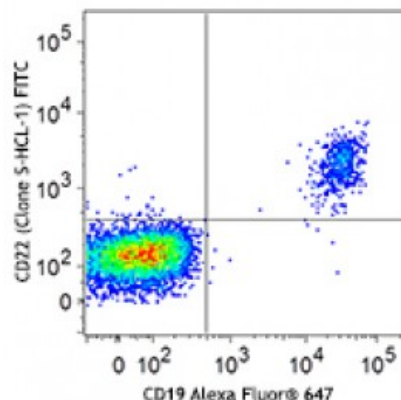


FITC anti-human CD22

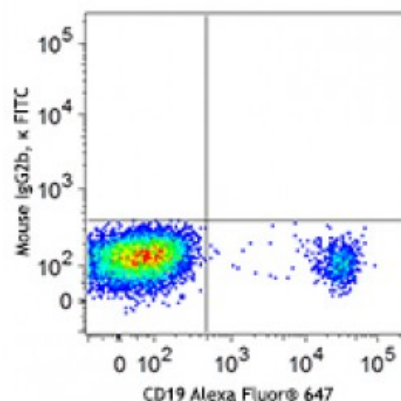
Catalog # / Size:	2417540 / 100 tests 2417535 / 25 tests
Clone:	S-HCL-1
Isotype:	Mouse IgG2b, κ
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD19 Alexa Fluor® 647 and CD22 (clone S-HCL-1) FITC (top) or mouse IgG2b, κ FITC isotype control (bottom).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	<ol style="list-style-type: none"> 1. Nitschke L. 2005. <i>Curr. Opin. Immunol.</i> 17:290 2. Foon Ka, <i>et al.</i> 1986. <i>Blood.</i> 68:297 3. Schwarting R, <i>et al.</i> 1985. <i>Blood.</i> 65:974 4. Campana D, <i>et al.</i> 1985. <i>J. Immunol.</i> 134:1524



Description: CD22 is a 130 kD type I transmembrane glycoprotein also known as Siglec-2 and BL-CAM and is a member of the immunoglobulin superfamily (sialoadhesion subgroup). CD22 is expressed in the cytoplasm of pro-B and pre-B cells, and on the surface of mature B and activated B cells, but not on plasma cells. CD22 is present in the B cell receptor complex and associates with SHP-1, Syk, Lck, Lyn, and phospholipase C γ 1. A primary function of CD22 is thought to be in limiting antigen receptor signaling by modulating B cell activation threshold. CD22 has been shown to bind to CD45RO and CD75, although the natural ligands for this molecule remain controversial.

Antigen 1. Clark E. 1993. *J. Immunol.* 150:4715.

References: 2. Shan D, *et al.* 1995. *J. Immunol.* 154:4466.