SONY

# Product Data Sheet

## APC anti-human CD22

**Catalog # / Size:** 2417530 / 100 tests
2417525 / 25 tests

**Clone:** S-HCL-1

**Isotype:** Mouse IgG2b, κ

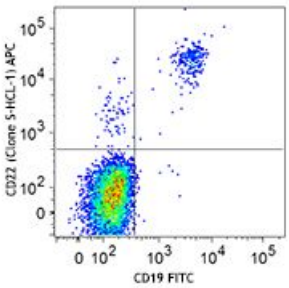
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Workshop Number:** HCDM listed

**Concentration:** Lot-specific



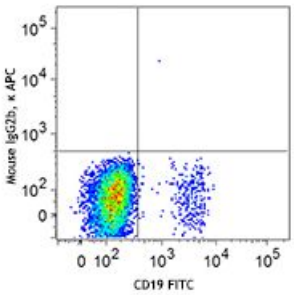

Human peripheral blood lymphocytes were stained with CD19 FITC and CD22 (clone S-HCL-1) APC (top) or mouse IgG2b, κAPC isotype control (bottom).

## 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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:**
1. Nitschke L. 2005. *Curr. Opin. Immunol.* 17:290
2. Foon Ka, *et al.* 1986. *Blood.* 68:297
3. Schwarting R, *et al.* 1985. *Blood.* 65:974
4. Campana D, *et al.* 1985. *J. Immunol.* 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 Cγ1. 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 References:**
1. Clark E. 1993. *J. Immunol.* 150:4715.
2. Shan D, *et al.* 1995. *J. Immunol.* 154:4466.

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