

Technical Data Sheet

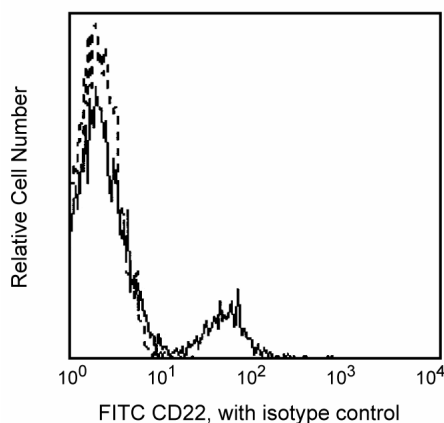
FITC Mouse Anti-Human CD22

Product Information

Material Number:	561771
Alternate Name:	BL-CAM
Size:	25 tests
Vol. per Test:	20 µl
Clone:	HIB22
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V CD22.14
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with the 130-140 kDa glycosylated type I integral membrane protein present on the surface of mature B cells. CD22 is expressed in the cytoplasm of virtually all B cells except plasma cells. CD45RO antigen on T cells and CD75 antigen on B cells have been identified as ligands for CD22. CD22 has been reported to participate in B-cell activation and also as an adhesion molecule. Although the immunobiology of this antigen has not been fully elucidated, reports indicate that ligation of CD22 induces constitutive internalization of the molecule followed by complete degradation.



Profile of peripheral blood lymphocytes analyzed on a BD FACScan™ (BDIS, San Jose, CA).

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555748	FITC Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
7. An isotype control should be used at the same concentration as the antibody of interest.

References

- Clark EA. CD22, a B cell-specific receptor, mediates adhesion and signal transduction. *J Immunol.* 1993; 150(11):4715-4718. (Biology)
- Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995. (Clone-specific)
- Shan D, Press OW. Constitutive endocytosis and degradation of CD22 by human B cells. *J Immunol.* 1995; 154(9):4466-4475. (Biology)
- Stamenkovic I, Sgroi D, Aruffo A, Sy MS, Anderson T. The B lymphocyte adhesion molecule CD22 interacts with leukocyte common antigen CD45RO on T cells and alpha 2-6 sialyltransferase, CD75, on B cells. *Cell.* 1991; 66(6):1133-1144. (Biology)