

Technical Data Sheet

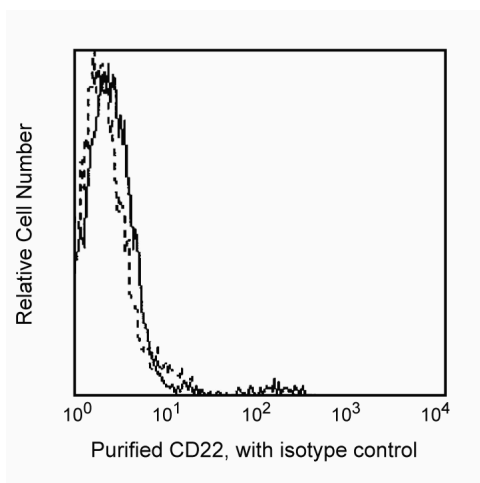
Purified Mouse Anti-Human CD22

Product Information

Material Number:	555423
Alternate Name:	BL-CAM
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	HIB22
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V CD22.14
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ 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

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

Recommended Assay Procedure:

This antibody is suitable for staining acetone-fixed, frozen tissue sections.

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

1. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. 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.

References

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995.(Clone-specific)
Clark EA. CD22, a B cell-specific receptor, mediates adhesion and signal transduction. *J Immunol*. 1993; 150(11):4715-4718.(Biology)
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)