Technical Data Sheet

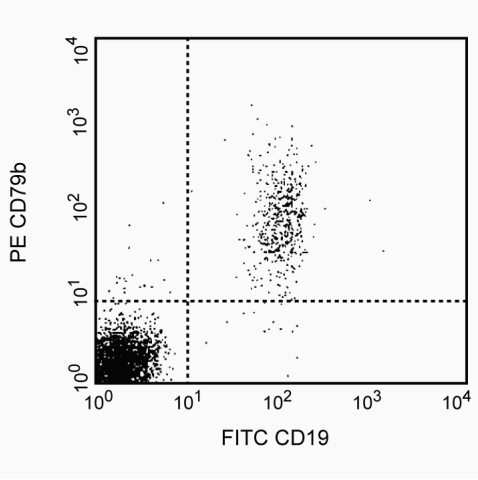
PE Mouse Anti-Human CD79b

Product Information

Material Number:	**561943**
Alternate Name:	Igβ
Size:	25 tests
Vol. per Test:	20 ul
Clone:	CB3-1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI CD79.1
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Immunoglobulin (Ig) antigen receptors are composed of a non-covalently- associated complex of Ig and two other proteins, Igα and Igβ, which have been designated in the Fifth International Leukocyte Workshop as CD79a and CD79b respectively. CB3-1 reacts with CD79b, which is expressed on surface Ig(sIg)-positive lymphocytes and B-cell lines but only in the cytoplasm of sIg-negative cells including most terminal deoxynucleotidyl transferase (TdT) positive early pre-B and all cytoplasmic μ positive pre-B cell lines. Antibodies to CD79b are helpful in delineating signal transduction pathways activated via antibody receptors during different stages of B-cell differentiation.



Two-color analysis of CD79b-PE versus CD19-FITC demonstrating specificity of CD79b for surface Ig + peripheral blood B 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 R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
560994	FITC Mouse Anti-Human CD19	25 tests	HIB19
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.

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4. 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.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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

Nakamura T, Kubagawa H, Cooper MD. Heterogeneity of immunoglobulin-associated molecules on human B cells identified by monoclonal antibodies. *Proc Natl Acad Sci U S A.* 1992; 89(18):8522-8526. (Biology)

Sanchez M, Misulovin Z, Burkhardt AL. Signal transduction by immunoglobulin is mediated through Ig alpha and Ig beta. *J Exp Med.* 1993; 178(3):1049-1055. (Biology)

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* New York: Oxford University Press; 1995. (Biology)