

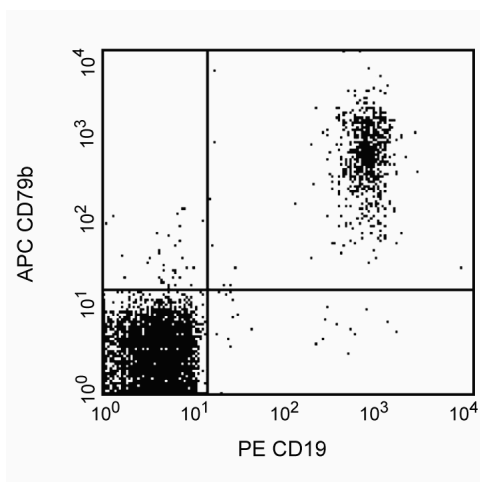
Technical Data Sheet

APC Mouse Anti-Human CD79b**Product Information**

| | |
|-------------------------|---|
| Material Number: | 550955 |
| Alternate Name: | Ig-beta; IGB; B29 |
| Size: | 100 Tests |
| Vol. per Test: | 20 µl |
| Clone: | CB3-1 |
| Immunogen: | Purified CD79αβ from Ramos B Cell Line |
| 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. The CB3-1 monoclonal antibody specifically binds to 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.



Flow cytometric analysis of CD79b expression on human peripheral blood lymphocytes. Whole blood was stained with APC Mouse Anti-Human CD79b (Cat. No. 550955) and PE Mouse Anti-Human CD19 (Cat. No. 555413/561741). Erythrocytes were lysed with BD FACS™ Lysing Solution (Cat. No. 555899). Fluorescence dot plot was derived from gated events with the forward and side light-scattering characteristics of viable lymphocytes.

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 to APC under optimum conditions, and unconjugated antibody and free APC were removed.

Application Notes**Application**

Flow cytometry

Routinely Tested

BD Biosciences

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550955 Rev. 8



Suggested Companion Products

| <u>Catalog Number</u> | <u>Name</u> | <u>Size</u> | <u>Clone</u> |
|-----------------------|--|-------------|--------------|
| 555751 | APC Mouse IgG1, κ Isotype Control | 100 Tests | MOPC-21 |
| 561741 | PE Mouse Anti-Human CD19 | 25 Tests | HIB19 |
| 555413 | PE Mouse Anti-Human CD19 | 100 Tests | HIB19 |
| 349202 | BD FACST [™] Lysing Solution | 100 mL | (none) |
| 555899 | Lysing Buffer | 100 mL | (none) |
| 554656 | Stain Buffer (FBS) | 500 mL | (none) |
| 554657 | Stain Buffer (BSA) | 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- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
7. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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