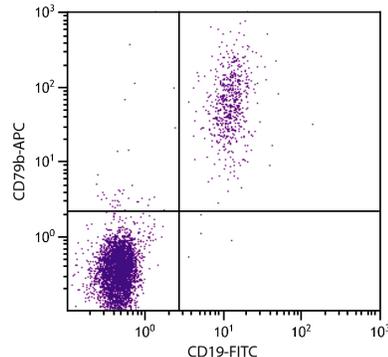




## Mouse Anti-Human CD79b

Cat. No.	Format	Size
9710-01	Purified (UNLB)	0.1 mg
9710-02	Fluorescein (FITC)	100 tests
9710-08	Biotin (BIOT)	100 tests
9710-09	R-phycoerythrin (PE)	100 tests
9710-11	Allophycocyanin (APC)	100 tests
9710-13	Spectral Red® (SPRD)	100 tests
9710-19	Allophycocyanin-Cyanine 7 (APC/CY7)	100 tests



Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD79b-APC (SB Cat. No. 9710-11) and Mouse Anti-Human CD19-FITC (SB Cat. No. 9340-02).

### Overview

<b>Clone</b>	CB3-1
<b>Isotype</b>	Mouse (BALB/c) IgG <sub>1κ</sub>
<b>Immunogen</b>	Ramos B cells
<b>Specificity</b>	Human CD79b; Mr 37 kDa
<b>Alternate Name(s)</b>	B29, Igβ
<b>Workshop</b>	VI CD79.1 β

### Description

CD79 is a disulfide-linked heterodimer composed of an  $\alpha$  chain (CD79a) and a  $\beta$  chain (CD79b) that associates non-covalently with membrane immunoglobulin to form the B cell receptor (BCR) complex. Its expression is restricted to B lymphocytes first appearing on the surface at the pro-B cell stage and remaining through all stages of B cell differentiation prior to plasma cells. Crosslinking of the BCR leads to B cell activation. The monoclonal antibody CB3-1 reacts with the  $\beta$  chain of CD79.

### Applications

FC – Quality tested <sup>1,3-5</sup>  
 IP – Reported in literature <sup>1,2</sup>  
 WB – Reported in literature <sup>1</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	$\leq 1 \mu\text{g}/10^6$ cells
	FITC, BIOT, PE, APC, SPRD, and APC/CY7 conjugates	$10 \mu\text{L}/10^6$ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 $\mu\text{L}$ .	

**Other Applications** Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

## Handling and Storage

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- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) and allophycocyanin-Cyanine 7 (APC/CY7) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

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Some reagents contain sodium azide. Please refer to product specific SDS.

## References

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1. Nakamura T, Kubagawa H, Cooper MD. Heterogeneity of immunoglobulin-associated molecules on human B cells identified by monoclonal antibodies. *Proc Natl Acad Sci USA.* 1992;89:8522-6. (Immunogen, IP, WB, FC)
2. Lévêille C, Castaigne J, Charron D, Al-Daccak R. MHC class II isotype-specific signaling complex on human B cells. *Eur J Immunol.* 2002;32:2282-91. (IP)
3. Lanvin O, Guglielmi P, Fuentes V, Gouilleux-Gruart V, Mazière C, Bissac E, et al. TGF-β1 modulates Fas (APO-1/CD95)-mediated apoptosis of human pre-B cell lines. *Eur J Immunol.* 2003;33:1372-81. (FC)
4. Demurtas A, Stacchini A, Aliberti S, Chiusa L, Chiarle R, Novero D. Tissue flow cytometry immunophenotyping in the diagnosis and classification of non-Hodgkin's lymphomas: a retrospective evaluation of 1,792 cases. *Cytometry B Clin Cytom.* 2013;84B:82-95. (FC)
5. Stacchini A, Aliberti S, Pacchioni D, Demurtas A, Isolato G, Gazzera C, et al. Flow cytometry significantly improves the diagnostic value of fine needle aspiration cytology of lymphoproliferative lesions of salivary glands. *Cytopathology.* 2014;25:231-40. (FC)

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Spectral Red® is a PE/CY5 tandem conjugate.

Cy® is a registered trademark of Global Life Sciences Solutions Germany GmbH