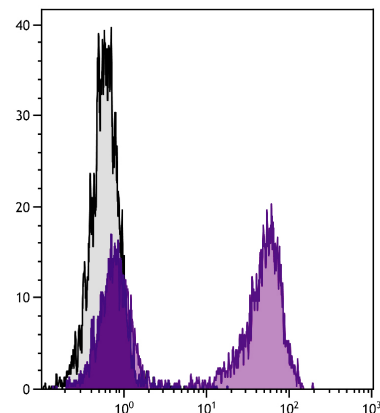




Hamster Anti-Mouse CD79b

Cat. No.	Format	Size
1830-01	Purified (UNLB)	0.5 mg
1830-02	Fluorescein (FITC)	0.5 mg
1830-08	Biotin (BIOT)	0.5 mg
1830-09	R-phycoerythrin (PE)	0.1 mg
1830-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



BALB/c mouse splenocytes were stained with Hamster Anti-Mouse CD79b-FITC (SB Cat. No. 1830-02).

Overview

Clone	HM79-12
Isotype	Hamster (Armenian) IgG ₁
Immunogen	CD79 α /CD79 β heterodimers purified from mouse (BALB/c x NZB)F1 B cell lymphoma cells, WEHI231
Specificity	Mouse CD79b; Mr 37-39 kDa
Alternate Name(s)	B29, Ig β

Description

Murine CD79 is a disulfide-linked heterodimer composed of an α chain (CD79a) and a β chain (CD79b) that associates non-covalently with membrane immunoglobulin (Ig) 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 prior to productive Ig gene rearrangements and remaining through all stages of B-cell differentiation prior to plasma cells. It has been proposed that the CD79 complex on pro-B cell surfaces may function to induce early B-cell differentiation.

Applications

FC – Quality tested ¹⁻³
 IP – Reported in literature ^{1,2}
 WB – Reported in literature ¹

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	$\leq 1 \mu\text{g}/10^6$ cells
	FITC and BIOT conjugates	$\leq 1 \mu\text{g}/10^6$ cells
	PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	

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

- The purified (UNLB) antibody is supplied as 0.5 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 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

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

References

1. Koyama M, Ishihara K, Karasuyama H, Cordell JL, Iwamoto A, Nakamura T. CD79 α /CD79 β heterodimers are expressed on pro-B cell surfaces without associated μ heavy chain. *Int Immunol.* 1997;9:1767-72. (Immunogen, FC, IP, WB)
2. Kato I, Miyazaki T, Nakamura T, Kudo A. Inducible differentiation and apoptosis of the pre-B cell receptor-positive pre-B cell line. *Int Immunol.* 2000;12:325-34. (IP, FC)
3. McHeyzer-Williams LJ, Cool M, McHeyzer-Williams MG. Antigen-specific B cell memory: expression and replenishment of a novel b220(-) memory B cell compartment. *J Exp Med.* 2000;191:1149-65. (FC)