

Technical Data Sheet

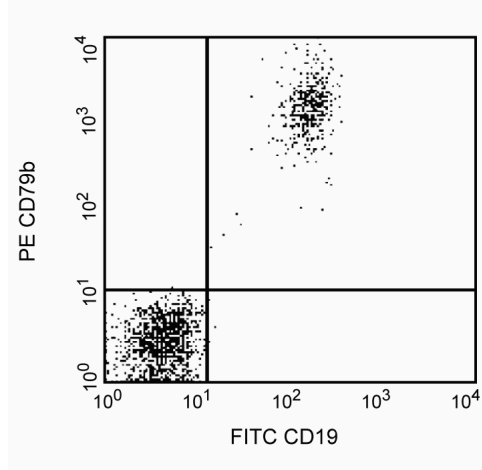
PE Mouse Anti-Human CD79b

Product Information

Material Number:	557931
Alternate Name:	Ig β ; B29; IGB; AGM6; CD79B
Size:	100 Tests
Vol. per Test:	20 μ l
Clone:	3A2-2E7 (also known as SN8)
Immunogen:	Cell membranes from human B-prol lymphocytic leukemia (B-PLL) cells
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V B037
Storage Buffer:	Aqueous buffered solution containing BSA and $\leq 0.09\%$ sodium azide.

Description

The 3A2-2E7 monoclonal antibody (also known as SN8) specifically recognizes CD79b. Immunoglobulin (Ig) antigen receptors are composed of a non-covalently-associated complex of Ig and two other proteins, Ig α and Ig β , clustered as CD79a and CD79b, respectively. CD79b is a membrane glycoprotein of 229 residues, with a predicted relative molecular mass of 36-40 kDa. Its expression is restricted to B lineage cells. CD79b reportedly associates with surface IgM and is involved in signal transduction. The 3A2-2E7 antibody has similar reactivity characteristics as clone CB3-1. The 3A2-2E7 and CD3-1 antibodies specifically react with an epitope that is enhanced on certain B-cell leukemias such as polymorphocytic leukemia and lymphoma, but not on chronic lymphocytic leukemia.



Flow cytometric analysis of CD79b expression on human peripheral blood lymphocytes. Whole blood was stained with PE Mouse Anti-Human CD79b (Cat. No. 557931) and FITC Mouse Anti-Human CD19 (Cat. No. 555412/560994). Erythrocytes were lysed with BD FACS™ Lysing Solution (Cat. No. 349202). The two-color dot plot depicting CD79b expression was derived from gated events with the side and forward light-scatter 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 with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 Tests	MOPC-21
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
349202	BD FACS™ Lysing Solution	100 mL	(none)
555899	Lysing Buffer	100 mL	(none)
555412	FITC Mouse Anti-Human CD19	100 Tests	HIB19
560994	FITC Mouse Anti-Human CD19	25 Tests	HIB19

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557931 Rev. 4



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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

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- Van Kooten C, Galibert L, Seon BK, Garrone P, Liu YJ, Banchereau J. Cross-linking of antigen receptor via Ig-beta (B29, CD79b) can induce both positive and negative signals in CD40-activated human B cells. *Clin Exp Immunol.* 1997; 110(3):509-515. (Biology)
- Zomas AP, Matutes E, Morilla R, Owusu-Ankomah K, Seon BK, Catovsky D. Expression of the immunoglobulin-associated protein B29 in B cell disorders with the monoclonal antibody SN8 (CD79b). *Leukemia.* 1996; 10(12):1966-1970. (Biology)