

Technical Data Sheet

PE Mouse Anti-Human CD79b

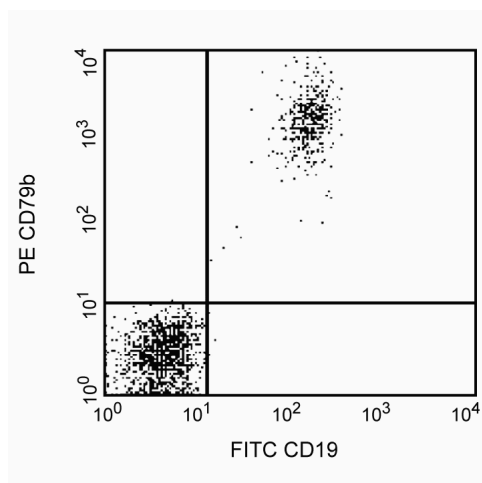
Product Information

Material Number:	557931
Alternate Name:	Igβ/SN8/3A2-2E7-1F5
Size:	100 tests
Vol. per Test:	20 µl
Clone:	3A2-2E7
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V B037
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, 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, has been reported to associate with surface IgM receptor, and may be involved in signal transduction.

Antibody 3A2-2E7 (also known as SN8) was generated by immunization of cell membrane preparations from B-prolymphocytic leukemia cells. It has similar reactivity characteristics as clone CB3-1 (another CD79b available from BD Biosciences Pharmingen, Cat. No. 555678). Antibodies CD3-1 and 3A2-2E7 reacts with an epitope that is enhanced on certain B-cell leukemias such as prolymphocytic leukemia and lymphoma, but not on chronic lymphocytic leukemia.



Profile of CD79b (3A2-2E7) reactivity on peripheral blood lymphocytes analyzed by flow cytometry

Preparation and Storage

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.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

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

Product Notices

- 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).

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2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmlingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. 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.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

- Moreau EJ, Matutes E, A'Hern RP, et al. Improvement of the chronic lymphocytic leukemia scoring system with the monoclonal antibody SN8 (CD79b). *Am J Clin Pathol.* 1997; 108(4):378-382. (Biology)
- Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995. (Clone-specific)
- 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)