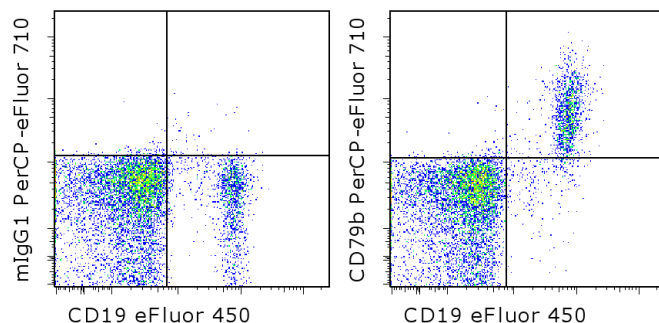


Anti-Human CD79b PerCP-eFluor® 710

Catalog Number: 46-0793

Also known as: Ig-beta, B cell Receptor

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD19 eFluor® 450 (cat. 48-0199) and Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (left) or Anti-Human CD79b PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD79b PerCP-eFluor® 710

Catalog Number: 46-0793

Clone: CB3-1

Concentration: 5 µL (0.25 µg)/test

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, contains stabilizer if necessary

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

This CB3-1 monoclonal antibody reacts with human CD79b, the B cell antigen receptor Ig-beta chain. Together with the Ig-alpha chain, also known as CD79a, this cell surface molecule forms a heterodimeric complex that associates with membrane immunoglobulin (mIgM). CD79b expression is exclusive to B lymphocytes and B cell lymphomas. Depending on the maturation state of the B cell, CD79b can be expressed either in the cytoplasm or on the cell surface. The CD79 receptor complex triggers numerous signaling pathways to mediate B cell development, maintenance, and activation.

Applications Reported

This CB3-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This CB3-1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

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Astsaturov IA, Matutes E, Morilla R, Seon BK, Mason DY, Farahat N, Catovsky D. Differential expression of B29 (CD79b) and mb-1 (CD79a) proteins in acute lymphoblastic leukaemia. *Leukemia*. 1996 May;10(5):769-73.

Nakamura T, Kubagawa H, Cooper MD. Heterogeneity of immunoglobulin-associated molecules on human B cells identified by monoclonal antibodies. *Proc Natl Acad Sci U S A*. 1992 Sep 15;89(18):8522-6. (FC, WB)

Related Products

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

48-0199 Anti-Human CD19 eFluor® 450 (HIB19)