PE/Fire™ 744 anti-human CD79b (Igβ) Antibody

Catalog# / Size	341439 / 25 tests 341440 / 100 tests
Clone	CB3-1
Regulatory Status	RUO
Workshop	VI CD79.1
Other Names	Igb, Igβ (Ig-beta), B29
Isotype	Mouse IgG1, κ
Description	CD79 is a heterodimeric molecule comprised of an α-chain (CD79a) and β-chain (CD79b). A 37-39 kD type I integral membrane protein CD79b is non-covalently associated with CD79a and cell surface IgM to form the B-cell receptor (BCR) complex. CD79b is expressed on the surface of surface Ig (sIg)-positive B cells and in the cytoplasm of sIg-negative B cells. It is essential for signal transduction after surface Ig crosslinking.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 744 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages. * PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)

Application References

(PubMed link indicates BioLegend citation)

1. Nakamura T, *et al.* 1992. *P. Natl. Acad. Sci. USA* 89:8522.
2. Garcia Vela J, *et al.* 1999. *Leukemia.* 13:1501.
3. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
4. Rossi EA, *et al.* 2014. *PLoS One.* 9:98315. PubMed

RRID	AB_3720496 (BioLegend Cat. No. 341439) AB_3720496 (BioLegend Cat. No. 341440)

Antigen Details

Structure	37-39 kD type I integral membrane protein, associate with CD79a and cell surface IgM to form the B-cell receptor (BCR) complex, Ig superfamily.
Distribution	B cells
Function	From BCR complex, signal transduction
Cell Type	B cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Zola H, *et al.* Eds. 2007. *Leukocyte and Stromal Cell Molecules:The CD Markers. A John Wiley & Sons Inc.* 2. Dylke J, *et al.* 2007. *Immunol. Lett.* 112:47
Gene ID	974

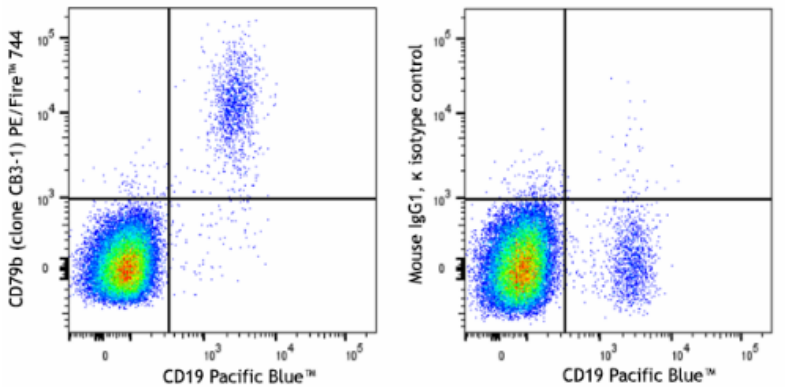
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

PE anti-human CD79b, APC anti-human CD79b, Spark Violet™ 423 anti-human CD79b (Igβ), GMP APC anti-human CD79b (Igβ), Spark YG™ 593 anti-human CD79b (Igβ), GMP PerCP/Cyanine5.5 anti-human CD79b (Igβ), GMP PE anti-human CD79b (Igβ), Brilliant Violet 711™ anti-human CD79b (Igβ), Spark Blue™ 550 anti-human CD79b (Igβ), Spark Blue™ 574 anti-human CD79b (Igβ), PE/Cyanine5 anti-human CD79b (Igβ), Alexa Fluor® 647 anti-human CD79b (Igβ), APC/Fire™ 750 anti-human CD79b (Igβ), PE/Cyanine7 anti-human CD79b (Igβ), PE anti-human CD79b (Igβ), APC anti-human CD79b (Igβ), PerCP/Cyanine5.5 anti-human CD79b (Igβ), TotalSeq™-D0187 anti-human CD79b (Igβ), PerCP/Cyanine5.5 anti-human CD79b, Brilliant Violet 785™ anti-human CD79b (Igβ), PE/Fire™ 700 anti-human CD79b (Igβ), PE/Fire™ 744 anti-human CD79b (Igβ), TotalSeq™-C0187 anti-human CD79b (Igβ), TotalSeq™-B0187 anti-human CD79b (Igβ), TotalSeq™-A0187 anti-human CD79b (Igβ), APC/Fire™ 750 anti-human CD79b

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD19 (clone HIB19) Pacific Blue™ and anti-human CD79b (Igβ) (clone CB3-1) PE/Fire™ 744 (left) or mouse IgG1, κ PE/Fire™ 744 isotype control (right).

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