Brilliant Violet 421™ anti-human CD79a (Igα) Antibody

Catalog# / Size	333519 / 25 tests 333520 / 100 tests
Clone	HM47
Regulatory Status	RUO
Workshop	V cB017
Other Names	Mb-1, Iga, CD79
Isotype	Mouse IgG1, κ
Description	CD79a is a 47 kD type I integral membrane protein, also known as mb-1 or Iga. It is a member of the Ig superfamily and disulphide-associated with CD79b (B29). The interaction of CD79a/CD79b heterodimer with B cell suface Ig forms B cell antigen receptor complex. CD79a is expressed in B cells from early pre-B to plasma cell stage. It has been shown that CD79a is also weakly expressed in some precursors of T- and myeloid cells. CD79 mediates the transport of IgM to B cell surface and transduces signals initiated by BCR aggregation.

Product Details

Verified Reactivity	Human
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 Brilliant Violet 421™ 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	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular 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. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 nm)
RRID	AB_3662227 (BioLegend Cat. No. 333519) AB_3662227 (BioLegend Cat. No. 333520)

Antigen Details

Structure	47 kD, type I integral protein, Ig superfamily, CD79a/CD79b heterodimer interacts with B cell membrane Ig.
Distribution	B cells (from early pre-B to plasma cell stage), some T and myeloid cell precursors
Function	In association with CD79b and B cell membrane Ig to form B cell antigen receptor complex
Cell Type	B cells, Hematopoietic stem and progenitors
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Zola Heddy, *et al.* Eds. 2007. Leukocyte and Stromal Cell Molecules:The CD markers. WILEY-LISS 2. Astsaturov IA, *et al.* 1996. *Leukemia* 10:769 3. Mson DY, *et al.* 1995 *Blood* 86:1453 4. Hashimoto M, *et al.* 2002. *J. Pathol.* 197:341
Gene ID	973

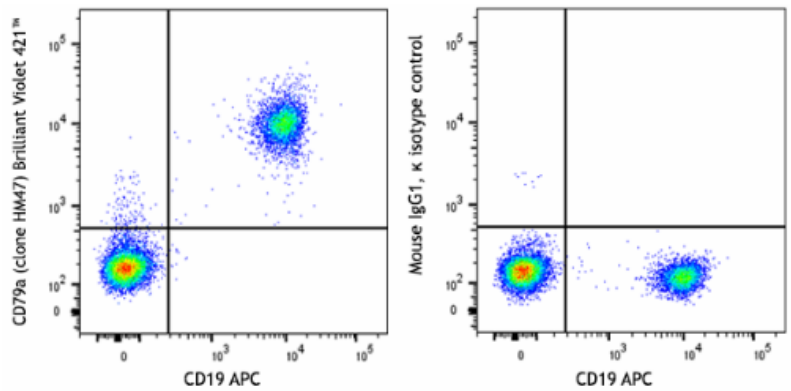
Related Protocols

- Intracellular Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD79a (Igα), PE anti-human CD79a (Igα), APC anti-human CD79a (Igα), PerCP/Cyanine5.5 anti-human CD79a (Igα), PE/Cyanine7 anti-human CD79a (Igα), FITC anti-human CD79a (Igα), Alexa Fluor® 594 anti-human CD79a (Igα), Alexa Fluor® 647 anti-human CD79a (Igα), APC anti-human CD79a, PerCP/Cyanine5.5 anti-human CD79a, PE anti-human CD79a, FITC anti-human CD79a, TotalSeq™-B0578 anti-human CD79a (Igα), GMP PerCP/Cyanine5.5 anti-human CD79a (Igα), Brilliant Violet 421™ anti-human CD79a (Igα), GMP APC anti-human CD79a (Igα), TotalSeq™-C0578 anti-human CD79a (Igα) Antibody, GMP FITC anti-human CD79a (Igα), GMP PE anti-human CD79a (Igα)

Product Data



Human peripheral blood lymphocytes were surface stained with anti-human CD19 (clone HIB19) APC. Cells were then fixed, permeabilized, and intracellularly stained with anti-human CD79a (Igα) (clone HM47) Brilliant Violet 421™ (left) or mouse IgG1, κ Brilliant Violet 421™ isotype control (right).

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