

PE anti-human CD79a (Igα) Antibody

Catalog# / Size	333503 / 25 tests 333504 / 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 surface Ig forms B cell antigen 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 PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Product Citations	1. Jarosch S, <i>et al.</i> 2022. STAR Protoc. 3:101374. PubMed 2. Jarosch S, <i>et al.</i> 2021. Cell Rep Methods. 1:100104. PubMed 3. Liu G, <i>et al.</i> 2011. Cryobiology. 63:125. PubMed
RRID	AB_1089076 (BioLegend Cat. No. 333503) AB_1089073 (BioLegend Cat. No. 333504)

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	<ol style="list-style-type: none"> 1. Zola Heddy, <i>et al.</i> Eds. 2007. Leukocyte and Stromal Cell Molecules: The CD markers. WILEY-LISS 2. Astsaturov IA, <i>et al.</i> 1996. <i>Leukemia</i> 10:769 3. Mson DY, <i>et al.</i> 1995 <i>Blood</i> 86:1453 4. Hashimoto M, <i>et al.</i> 2002. <i>J. Pathol.</i> 197:341
Gene ID	973

Related Protocols

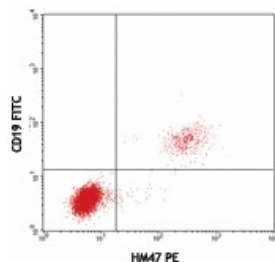
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[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)

Product Data



Human peripheral blood lymphocytes surface stained with CD19 (HIB19) FITC and intracellular stained with HM47 PE

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587