

## GMP PerCP/Cyanine5.5 anti-human CD79a (Igα) Antibody

<b>Catalog# / Size</b>	260394 / 100 tests
<b>Clone</b>	HM47
<b>Workshop</b>	V cB017
<b>Other Names</b>	Mb-1, Iga, CD79
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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 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

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<b>Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
<b>Concentration</b>	25 µg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ICFC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">intracellular immunofluorescent staining with flow cytometric analysis</a>. 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.</p> <p>* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.</p>
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Disclaimer</b>	<p><b>GMP RUO Flow Cytometry Antibodies.</b> BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:</p> <ul style="list-style-type: none"><li>• Batch-to-batch consistency</li><li>• Material traceability</li><li>• Documented procedures</li><li>• Documented employee training</li><li>• Equipment maintenance and monitoring records</li><li>• Lot-specific certificates of analysis</li><li>• Quality audits per ISO 13485:2016</li><li>• QA review of released products</li></ul>

## Antigen Details

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<b>Structure</b>	47 kD, type I integral protein, Ig superfamily, CD79a/CD79b heterodimer interacts with B cell membrane Ig.
<b>Distribution</b>	B cells (from early pre-B to plasma cell stage), some T and myeloid cell precursors
<b>Function</b>	In association with CD79b and B cell membrane Ig to form B cell antigen receptor complex
<b>Cell Type</b>	B cells, Hematopoietic stem and progenitors
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	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
<b>Gene ID</b>	<a href="#">973</a>

## Related Protocols

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- [Intracellular Flow Cytometry Staining Protocol](#)

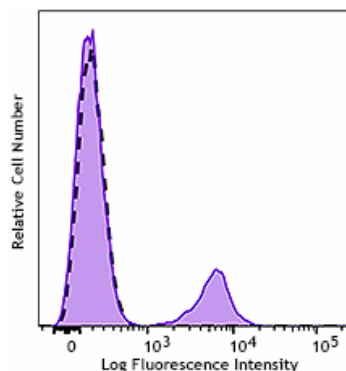
## Other Formats

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Purified anti-human CD79a (Ig $\alpha$ ), PE anti-human CD79a (Ig $\alpha$ ), APC anti-human CD79a (Ig $\alpha$ ), PerCP/Cyanine5.5 anti-human CD79a (Ig $\alpha$ ), PE/Cyanine7 anti-human CD79a (Ig $\alpha$ ), FITC anti-human CD79a (Ig $\alpha$ ), Alexa Fluor® 594 anti-human CD79a (Ig $\alpha$ ), Alexa Fluor® 647 anti-human CD79a (Ig $\alpha$ ), APC anti-human CD79a, PerCP/Cyanine5.5 anti-human CD79a, PE anti-human CD79a, FITC anti-human CD79a

## Product Data

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Typical results from human peripheral blood lymphocytes fixed with Fixation Buffer (Cat# 420801), permeabilized with Permeabilization Wash Buffer (Cat# 421002), and intracellularly stained either with HM47 PerCP/Cyanine5.5 used at 5  $\mu$ L/test (filled histogram) or with an isotype control (open histogram).

For Research Use Only. Suitable for *ex vivo* cell processing. Not for injection or diagnostic or therapeutic use.

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