

## Purified anti-human CD79a (Igα) Antibody

<b>Catalog# / Size</b>	333502 / 100 µg
<b>Clone</b>	HM47
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V cB017
<b>Other Names</b>	Mb-1, Igα, 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 Igα. 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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">ICFC - Quality tested</a> <a href="#">IHC-P - Verified</a> <a href="#">IP, WB - Reported in the literature, not verified in house</a>
<b>Recommended Usage</b>	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 ≤ 0.125 µg per million cells in 100 µl volume. For immunohistochemical staining on formalin-fixed paraffin-embedded tissue sections, the suggested use of this reagent is 5 - 10 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
<b>RRID</b>	AB_1089078 (BioLegend Cat. No. 333502)

### 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, *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

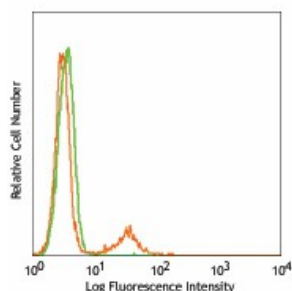
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

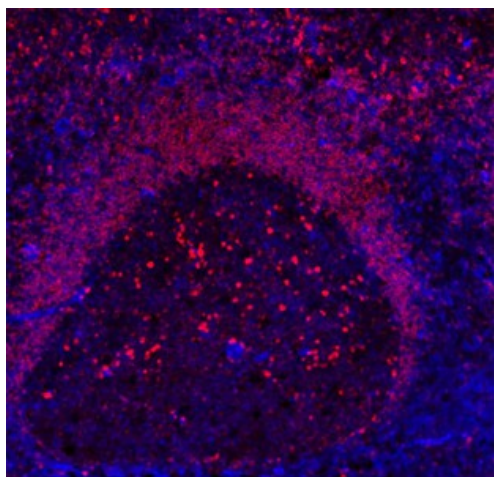
## Other Formats

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 intracellularly stained with purified HM47, followed by FITC anti-mouse IgG



Human paraffin-embedded tonsil tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Citrate-Buffered Saline 1X (1.0M, pH 7.4) at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/ml of Purified anti-CD79a (Clone HM47) overnight at 4°C. On the next day, tissue was washed twice with PBS and stained with Alexa Fluor® 594 goat anti-mouse IgG antibody (Clone POLY4053, red) for an hour at room temperature. Nuclei were counter-stained with DAPI (blue). The image was scanned with a 10X objective and stitched with MetaMorph® software.

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