

Datasheet: MCA1298A647

Description:	MOUSE ANTI HUMAN CD79a:Alexa Fluor® 647
Specificity:	CD79a
Other names:	MB-1
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	ZL7-4
Isotype:	IgG1
Quantity:	100 TESTS/1ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Antibody purified from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen IgM complex isolated from Daudi cells.

External Database

Links

UniProt:

[P11912](#) [Related reagents](#)

Entrez Gene:

[973](#) CD79A [Related reagents](#)

Synonyms

IGA, MB1

RRID

AB_322590

Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.

Specificity

Mouse anti Human CD79a antibody, clone ZL7-4 recognizes the human B-cell antigen receptor complex-associated protein alpha chain, also known as MB-1 membrane glycoprotein or CD79a. clone ZL7-4 reacts with CD79a positive cells by flow cytometry and with CD79a in an ELISA specific for a fusion protein of CD79a-Fc.

Mouse anti Human CD79a antibody, clone ZL7-4 has been reported to be useful in distinguishing B-CLL from mantle cell lymphoma in flow cytometric assays ([Bell et al. 1999](#)).

Mouse anti Human CD79a antibody, clone ZL7-4 has been reported to be suitable for Immunohistochemistry on frozen and pre-treated paraffin sections, but does exhibit epithelial staining.

Mouse anti Human CD79a antibody, clone ZL7-4 has been reported to induce phosphorylation of syk kinase ([Lanham et al. 2003](#)).

Flow Cytometry

Use 10µl of the suggested working dilution to label 10⁶ cells or 100µl whole blood We recommend incubation times of at least 30 minutes with this antibody.

References

1. Zhang, L. *et al.* (1995) The development of anti-CD79 monoclonal antibodies for treatment of B-cell neoplastic disease. [Therapeutic Immunology 2:191-202](#)
2. Bell, P.B. *et al.* (1999) CD79a detected by ZL7.4 separates chronic lymphocytic leukemia from mantle cell lymphoma in the leukemic phase. [Cytometry. 38 \(3\): 102-5.](#)
3. Cragg, M.S. *et al.* (2002) The alternative transcript of CD79b is overexpressed in B-CLL and inhibits signaling for apoptosis. [Blood. 100: 3068-76.](#)
4. Lanham, S. *et al.* (2003) Differential signaling via surface IgM is associated with VH gene mutational status and CD38 expression in chronic lymphocytic leukemia. [Blood. 101 \(3\): 1087-93.](#)
5. Allsup, D.J. *et al.* (2005) B-cell receptor translocation to lipid rafts and associated signaling differ between prognostically important subgroups of chronic lymphocytic leukemia. [Cancer Res. 65: 7328-37.](#)
6. Rahemtullah, A. *et al.* (2008) CD20+ T-cell lymphoma: clinicopathologic analysis of 9

cases and a review of the literature. [Am J Surg Pathol. 32 \(11\): 1593-607.](#)

7. Luger, D. *et al.* (2013) Expression of the B-cell receptor component CD79a on immature myeloid cells contributes to their tumor promoting effects. [PLoS One. 8 \(10\): e76115.](#)

8. Vendel, A.C. *et al* (2009) B and T lymphocyte attenuator regulates B cell receptor signaling by targeting Syk and BLNK [J Immunol. 182: 1509-17.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

Acknowledgements The Alexa Fluor dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays, and are covered by pending and issued patents.

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1298A647>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

North & South America Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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