

Datasheet: MCA1298

**BATCH NUMBER 172261**

<b>Description:</b>	MOUSE ANTI HUMAN CD79a
<b>Specificity:</b>	CD79a
<b>Other names:</b>	MB-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ZL7-4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 mg

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			10ug/ml
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA	▪			
Immunoprecipitation	▪			20ug/ml
Western Blotting			▪	

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	<0.1% sodium azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	IgM complex isolated from Daudi cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P11912</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">973</a> CD79A    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	IGA, MB1
<b>RRID</b>	AB_321767
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD79a antibody, clone ZL7-4</b> 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.</p> <p>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 (<a href="#">Bell et al. 1999</a>).</p> <p>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.</p> <p>Mouse anti Human CD79a antibody, clone ZL7-4 has been reported to induce phosphorylation of syk kinase (<a href="#">Lanham et al. 2003</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>Zhang, L. <i>et al.</i> (1995) The development of anti-CD79 monoclonal antibodies for treatment of B-cell neoplastic disease. <a href="#">Therapeutic Immunology 2:191-202</a></li> <li>Bell, P.B. <i>et al.</i> (1999) CD79a detected by ZL7.4 separates chronic lymphocytic leukemia from mantle cell lymphoma in the leukemic phase. <a href="#">Cytometry. 38 (3): 102-5.</a></li> <li>Cragg, M.S. <i>et al.</i> (2002) The alternative transcript of CD79b is overexpressed in B-CLL and inhibits signaling for apoptosis. <a href="#">Blood. 100: 3068-76.</a></li> <li>Lanham, S. <i>et al.</i> (2003) Differential signaling via surface IgM is associated with VH gene mutational status and CD38 expression in chronic lymphocytic leukemia. <a href="#">Blood. 101 (3): 1087-93.</a></li> <li>Allsup, D.J. <i>et al.</i> (2005) B-cell receptor translocation to lipid rafts and associated signaling differ between prognostically important subgroups of chronic lymphocytic</li> </ol>

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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10057 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1298>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M430632:240522'

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