# Datasheet: MCA1298A647T

## BATCH NUMBER 154733

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| **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:** | 25 TESTS/0.25ml |

## 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 antibody 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 antibody 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 |

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide
1% Bovine Serum Albumin

**Approx. Protein Concentrations**

IgG concentration 0.05 mg/ml

**Immunogen**

IgM complex isolated from Daudi cells.

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| **External Database Links** | **UniProt:**<br>P11912 Related reagents<br><br>**Entrez Gene:**<br>973 CD79A Related reagents |
| **Synonyms** | IGA, MB1 |
| **RRID** | AB_1102327 |
| **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.<br><br>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).<br><br>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.<br><br>Mouse anti Human CD79a antibody, clone ZL7-4 has been reported to induce phosphorylation of syk kinase (Lanham *et al.* 2003). |
| **Flow Cytometry** | Use 10ul of the suggested working dilution to label $10^6$ cells or 100ul 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<br>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.<br>3. 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.<br>4. 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.<br>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.<br>6. 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.<br>7. Rahemtullah, A. *et al.* (2008) CD20+ T-cell lymphoma: clinicopathologic analysis of 9 |

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| | cases and a review of the literature. Am J Surg Pathol. 32 (11): 1593-607. |
| **Storage** | Store at +4°C or at -20°C if preferred.<br><br>This product should be stored undiluted.<br><br>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.<br><br>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |
| **Guarantee** | 12 months from date of despatch |
| **Acknowledgements** | This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com |
| **Health And Safety Information** | Material Safety Datasheet documentation #10041 available at:<br>https://www.bio-rad-antibodies.com/SDS/MCA1298A647T<br>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)


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| **North & South America** | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: antibody_sales_us@bio-rad.com | **Worldwide** | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: antibody_sales_uk@bio-rad.com | **Europe** | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>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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