Datasheet: MCA1298F

BATCH NUMBER 157018

Description:	MOUSE ANTI HUMAN CD79a:FITC
Specificity:	CD79a
Other names:	MB-1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	ZL7-4
Isotype:	IgG1
Quantity:	0.1 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.

	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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1 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_321768
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 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 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. 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. 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. 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. 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. 7. 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.

Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. 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
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1298F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

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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