

Datasheet: MCA1821A647

Description:	HAMSTER ANTI MOUSE CD79b:Alexa Fluor® 647
Specificity:	CD79b
Other names:	B29
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	HM79-11
Isotype:	IgG
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 - 1/5

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/postive controls.

Target Species	Mouse						
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®647</td> <td>650</td> <td>665</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®647	650	665					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml						
Immunogen	CD79 alpha/CD79 beta heterodimer purified from WEHI-231 B cells.						
External Database Links	UniProt: P15530 Related reagents						

Entrez Gene:

[15985](#) Cd79b [Related reagents](#)

Synonyms Igb

RRID AB_324821

Fusion Partners Lymph node cells from immunised Armenian hamsters were fused with cells of the mouse X63-Ag8.653 myeloma cell line.

Specificity **Hamster anti Mouse CD79b antibody, clone HM79-11** recognizes murine CD79 beta, expressed by B cells as part of the B cell receptor complex (immunoglobulin and the CD79 alpha/beta heterodimer).

Murine CD79 beta is expressed at the cell surface of pro-B cells prior to surface immunoglobulin, and is expressed throughout B cell differentiation.

CD79 beta is a B cell specific marker, valuable for the detection of B cells at all maturation stages.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

References

1. Koyama, M. *et al.* (1997) CD79 alpha/CD79 beta heterodimers are expressed on pro-B cell surfaces without associated mu heavy chain. [Int Immunol. 9 \(11\): 1767-72.](#)
2. 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.](#)
3. Jelínek, F. *et al.* (2005) Characteristics of two mouse bcr-abl-transformed cell lines. II. Pathological lesions induced in mice. [Folia Biol \(Praha\). 51 \(4\): 93-102.](#)
4. Ankeny, D.P. *et al.* (2006) Spinal cord injury triggers systemic autoimmunity: evidence for chronic B lymphocyte activation and lupus-like autoantibody synthesis. [J Neurochem. 99 \(4\): 1073-87.](#)
5. Lacoste-collin, L. *et al.* (2007) Effect of continuous irradiation with a very low dose of gamma rays on life span and the immune system in SJL mice prone to B-cell lymphoma. [Radiat Res. 168 \(6\): 725-32.](#)

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 18 months from date of despatch.

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

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA2356A647\)](#)

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
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