

## Datasheet: MCA1821A647T

<b>Description:</b>	HAMSTER ANTI MOUSE CD79b:Alexa Fluor® 647
<b>Specificity:</b>	CD79b
<b>Other names:</b>	B29
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HM79-11
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid						
<b>Max Ex/Em</b>	<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					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.09% Sodium Azide						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml						
<b>Immunogen</b>	CD79 alpha/CD79 beta heterodimer purified from WEHI-231 B cells.						
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P15530</a> <a href="#">Related reagents</a>						

**Entrez Gene:**

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

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**Synonyms** Igb

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**RRID** AB\_1102335

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

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**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.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> 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](#)).

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**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.](#)

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**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.

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**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>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**North & South America**      Tel: +1 800 265 7376  
Fax: +1 919 878 3751

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