

## Datasheet: MCA2209F

<b>Description:</b>	RAT ANTI MOUSE CD79b:FITC
<b>Specificity:</b>	CD79b
<b>Other names:</b>	B29
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AT107-2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	■			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/positive controls.

**(1)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

<b>Target Species</b>	Mouse								
<b>Species Cross Reactivity</b>	Reacts with: Human, Rat, Pig, Dog, Koala, Tasmanian Devil, Cat Does not react with:Chicken <b>N.B.</b> Antibody reactivity and working conditions may vary between species.								
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - 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>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
FITC	490	525							
<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 Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin								
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml								

<b>Immunogen</b>	Peptide containing 20 amino acid residues from mouse CD79b conjugated to Keyhole Limpet Hemocyanin (KLH).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P15530</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">15985</a>    Cd79b    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Igb
<b>RRID</b>	AB_324172
<b>Fusion Partners</b>	Spleen cells from immunised rat were fused with cells of the mouse NS-1 myeloma cell line.
<b>Specificity</b>	<b>Rat anti Mouse CD79b antibody, clone AT107-2</b> recognizes a cytoplasmic region of mouse B-cell antigen receptor complex-associated protein beta chain, also known as B-cell-specific glycoprotein B29, Ig-beta, or Immunoglobulin-associated B29 protein. CD79b is a 228 amino acid, including a 26 signal peptide ~40 kDa type I single pass transmembrane glycoprotein. CD79b is expressed by B lymphocytes and associates with CD79a to form a heterodimer, non-covalently linked to surface immunoglobulin, forming the B-cell receptor (BCR) complex. Rat anti Mouse CD79b antibody, clone AT107-2 also recognizes a homologous region of human CD79b.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Dornan, D. <i>et al.</i> (2009) Therapeutic potential of an anti-CD79b antibody-drug conjugate, anti-CD79b-vc-MMAE, for the treatment of non-Hodgkin lymphoma. <a href="#">Blood. 114: 2721-9.</a></li> <li>Vendel, A.C. <i>et al.</i> (2009) B and T lymphocyte attenuator regulates B cell receptor signaling by targeting Syk and BLNK. <a href="#">J Immunol. 182: 1509-17</a></li> <li>Poggi, A. <i>et al.</i> (2017) Prognostic significance of Ki67 evaluated by flow cytometry in dogs with high-grade B-cell lymphoma. <a href="#">Vet Comp Oncol. 15 (2): 431-40.</a></li> <li>Kreiss, A. <i>et al.</i> (2009) A histological and immunohistochemical analysis of lymphoid tissues of the Tasmanian devil. <a href="#">Anat Rec (Hoboken). 292: 611-20.</a></li> <li>Lau, Q. <i>et al.</i> (2012) Expression and <i>in vitro</i> upregulation of MHCII in koala lymphocytes. <a href="#">Vet Immunol Immunopathol. 147: 35-43.</a></li> <li>Kandasamy S <i>et al.</i> (2014) Prenatal vitamin A deficiency impairs adaptive immune responses to pentavalent rotavirus vaccine (RotaTeq®) in a neonatal gnotobiotic pig model. <a href="#">Vaccine. 32 (7): 816-24.</a></li> <li>Whitney, J.L. <i>et al.</i> (2016) Immunohistochemical Analysis of Leucocyte Subsets in the Sinonasal Mucosa of Cats with Upper Respiratory Tract Aspergillosis. <a href="#">J Comp Pathol. 155 (2-3): 130-40.</a></li> <li>McCurdy, P. <i>et al.</i> (2014) Acute lymphoblastic leukemia in a pygmy hippopotamus (<i>Hexaprotodon liberiensis</i>). <a href="#">J Zoo Wildl Med. 45 (4): 906-10.</a></li> <li>Allan, J.N. <i>et al.</i> (2019) CD79b Expression in Richter's Transformation <a href="#">Blood. 134 (Supplement 1): 4279.</a></li> <li>Thalheim, L. <i>et al.</i> (2013) Lymphoma immunophenotype of dogs determined by immunohistochemistry, flow cytometry, and polymerase chain reaction for antigen receptor rearrangements. <a href="#">J Vet Intern Med. 27 (6): 1509-16.</a></li> <li>Ouyang, K. <i>et al.</i> (2015) Evaluation of humoral immune status in porcine epidemic diarrhea virus (PEDV) infected sows under field conditions. <a href="#">Vet Res. 46: 140.</a></li> <li>Bennett, A.L. <i>et al.</i> (2017) Canine acute leukaemia: 50 cases (1989-2014). <a href="#">Vet Comp Oncol. 15 (3): 1101-14.</a></li> <li>Borthwick, C.R. <i>et al.</i> (2019) An Examination of the Development and Localization of Key</li> </ol>

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14. Tilly, H. *et al.* (2019) Polatuzumab vedotin in combination with immunochemotherapy in patients with previously untreated diffuse large B-cell lymphoma: an open-label, non-randomised, phase 1b-2 study [The Lancet Oncology. 20 \(7\): 998-1010.](#)

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**Further Reading** 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

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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** 12 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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