

Datasheet: MCA2209

**BATCH NUMBER 152000**

<b>Description:</b>	RAT ANTI MOUSE CD79b
<b>Specificity:</b>	CD79b
<b>Other names:</b>	B29
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AT107-2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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)	▪			1/500 - 1/1000
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			

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 permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.**

### Target Species

Mouse

### Species Cross Reactivity

Reacts with: Human, Rat, Pig, Dog, Koala, Tasmanian Devil, Cat

Does not react with: Chicken

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 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_324357
<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</li> </ol>

- dogs with high-grade B-cell lymphoma. [Vet Comp Oncol. 15 \(2\): 431-40.](#)
4. Kreiss, A. *et al.* (2009) A histological and immunohistochemical analysis of lymphoid tissues of the Tasmanian devil. [Anat Rec \(Hoboken\). 292: 611-20.](#)
  5. Lau, Q. *et al.* (2012) Expression and *in vitro* upregulation of MHCII in koala lymphocytes. [Vet Immunol Immunopathol. 147: 35-43.](#)
  6. Kandasamy S *et al.* (2014) Prenatal vitamin A deficiency impairs adaptive immune responses to pentavalent rotavirus vaccine (RotaTeq®) in a neonatal gnotobiotic pig model. [Vaccine. 32 \(7\): 816-24.](#)
  7. Whitney, J.L. *et al.* (2016) Immunohistochemical Analysis of Leucocyte Subsets in the Sinonasal Mucosa of Cats with Upper Respiratory Tract Aspergillosis. [J Comp Pathol. 155 \(2-3\): 130-40.](#)
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  10. Thalheim, L. *et al.* (2013) Lymphoma immunophenotype of dogs determined by immunohistochemistry, flow cytometry, and polymerase chain reaction for antigen receptor rearrangements. [J Vet Intern Med. 27 \(6\): 1509-16.](#)
  11. Ouyang, K. *et al.* (2015) Evaluation of humoral immune status in porcine epidemic diarrhea virus (PEDV) infected sows under field conditions. [Vet Res. 46: 140.](#)
  12. Bennett, A.L. *et al.* (2017) Canine acute leukaemia: 50 cases (1989-2014). [Vet Comp Oncol. 15 \(3\): 1101-14.](#)
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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.](#)
  15. Sehn, L.H. *et al.* (2020) Polatuzumab Vedotin in Relapsed or Refractory Diffuse Large B-Cell Lymphoma. [J Clin Oncol. 38 \(2\): 155-65.](#)
  16. Herrera, A.F. *et al.* (2022) Anti-CD79B Antibody-Drug Conjugate DCDS0780A in Patients with B-Cell Non-Hodgkin Lymphoma: Phase 1 Dose-Escalation Study. [Clin Cancer Res. Jan 03 \[Epub ahead of print\].](#)

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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** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10057 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2209>

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**Regulatory**For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>

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