

Datasheet: MCA2209

Description:	RAT ANTI MOUSE CD79b
Specificity:	CD79b
Other names:	B29
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AT107-2
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			1/50 - 1/100
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 permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) 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.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Peptide containing 20 amino acid residues from mouse CD79b conjugated to Keyhole Limpet Hemocyanin (KLH).
External Database Links	<p>UniProt: P15530 Related reagents</p> <p>Entrez Gene: 15985 Cd79b Related reagents</p>
Synonyms	Igb
RRID	AB_324357
Fusion Partners	Spleen cells from immunised rat were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	Rat anti Mouse CD79b antibody, clone AT107-2 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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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. Blood. 114: 2721-9. Vendel, A.C. <i>et al.</i> (2009) B and T lymphocyte attenuator regulates B cell receptor signaling by targeting Syk and BLNK. J Immunol. 182: 1509-17 Poggi, A. <i>et al.</i> (2017) Prognostic significance of Ki67 evaluated by flow cytometry in dogs with high-grade B-cell lymphoma. Vet Comp Oncol. 15 (2): 431-40. Kreiss, A. <i>et al.</i> (2009) A histological and immunohistochemical analysis of lymphoid tissues of the Tasmanian devil. Anat Rec (Hoboken). 292: 611-20. Lau, Q. <i>et al.</i> (2012) Expression and <i>in vitro</i> upregulation of MHCII in koala lymphocytes. Vet Immunol Immunopathol. 147: 35-43. 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. Vaccine. 32 (7): 816-24. Whitney, J.L. <i>et al.</i> (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. McCurdy, P. <i>et al.</i> (2014) Acute lymphoblastic leukemia in a pygmy hippopotamus (<i>Hexaprotodon liberiensis</i>). J Zoo Wildl Med. 45 (4): 906-10. Allan, J.N. <i>et al.</i> (2019) CD79b Expression in Richter's Transformation Blood. 134 (Supplement 1): 4279. Thalheim, L. <i>et al.</i> (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. Ouyang, K. <i>et al.</i> (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.](#)
13. Borthwick, C.R. *et al.* (2019) An Examination of the Development and Localization of Key Immune Cells in Developing Pouch Young of the Red-Tailed Phascogale (*Phascogale calura*). [Anat Rec \(Hoboken\). 302 \(11\): 1985-2002.](#)
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.](#)

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

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. 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 #10057 available at: 10057: <https://www.bio-rad-antibodies.com/uploads/MSDS/10057.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®800

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