

Datasheet: MCA2209F

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

	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.**

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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid								
Max Ex/Em	<table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>FITC</td><td>490</td><td>525</td></tr></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
FITC	490	525							
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture								
Buffer Solution	Phosphate buffered saline								
Preservative	0.09% Sodium Azide								
Stabilisers	1% Bovine Serum Albumin								
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml								

Immunogen	Peptide containing 20 amino acid residues from mouse CD79b conjugated to Keyhole Limpet Hemocyanin (KLH).
External Database Links	UniProt: P15530 Related reagents Entrez Gene: 15985 Cd79b Related reagents
Synonyms	Igb
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 and human CD79b, a cell surface antigen expressed by B lymphocytes. The CD79b molecule (also known as Ig beta and B29) associates with CD79a to form a heterodimer that is non-covalently linked to surface immunoglobulin, forming the B-cell receptor (BCR) complex.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. 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. 2. 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 3. Poggi, A. <i>et al.</i> (2016) Prognostic significance of Ki67 evaluated by flow cytometry in dogs with high-grade B-cell lymphoma. Vet Comp Oncol. Jan 21. [Epub ahead of print] 4. 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. 5. Lau, Q. <i>et al.</i> (2012) Expression and in vitro upregulation of MHCII in koala lymphocytes. Vet Immunol Immunopathol. 147: 35-43. 6. 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. 7. 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. Aug 26. pii: S0021-9975(16)30103-7. [Epub ahead of print] 8. 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.
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. 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.

Shelf Life	18 months from date of despatch.
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

[RAT IgG1 NEGATIVE CONTROL:FITC \(MCA1211F\)](#)

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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