

Datasheet: MCA2209F

BATCH NUMBER 166783

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|----------------------|---------------------------|
| 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) | ▪ | | | 1/50 - 1/100 |

Where this product 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 product 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.

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|-----------|-------------|---------------------|-------------------|
| | FITC | 490 | 525 |

| | |
|---|---|
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% sodium azide (NaN ₃) 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 | <p>UniProt: P15530 Related reagents</p> <p>Entrez Gene: 15985 Cd79b Related reagents</p> |
| Synonyms | Igb |
| RRID | AB_324172 |
| Fusion Partners | Spleen cells from immunized rat were fused with cells of the mouse NS-1 myeloma cell line. |
| Specificity | <p>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.</p> |
| Flow Cytometry | Use 10µl of the suggested working dilution to label 1x10 ⁶ cells in 100µl |
| References | <ol style="list-style-type: none"> 1. 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 2. 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. 3. 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. 4. 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. 5. Thalheim, L. <i>et al</i>. (2013) Lymphoma immunophenotype of dogs determined by |

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 13. 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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 17. Antognoni, M.T. *et al.* (2021) Non Epitheliotropic B-Cell Lymphoma with Plasmablastic Differentiation vs. Cutaneous Plasmacytosis in a 12-Years-Old Beagle: Case Presentation and Clinical Review. [Vet Sci. 8 \(12\): 317.](#)
 18. 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. 28 \(7\):1294-301.](#)

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. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA2209F>
10041

Regulatory

For research purposes only

**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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