

Datasheet: MCA2209FT

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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: | 25 µg |

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 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 | | | | | | | |
| 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 1% Bovine Serum Albumin | | | | | | | | |
| Approx. Protein Concentrations | IgG concentration 0.1 mg/ml | | | | | | | | |

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|--------------------------------|---|
| 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 |
| 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 | <ol style="list-style-type: none"> 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 | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p> |

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 \(MCA1211F\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

North & South Tel: +1 800 265 7376

America 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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