

Datasheet: MCA2209F

BATCH NUMBER 1709

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. 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 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 immunised 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 10ul of the suggested working dilution to label 1×10^6 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> (2017) Prognostic significance of Ki67 evaluated by flow cytometry in dogs with high-grade B-cell lymphoma. Vet Comp Oncol. 15 (2): 431-40. 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.

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9. Allan, J.N. *et al.* (2019) CD79b Expression in Richter's Transformation [Blood. 134 \(Supplement 1\): 4279.](#)
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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.](#)

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>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2209F</p> <p>10041</p>
Regulatory	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M366353:200529'

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