

Datasheet: MCA2208F

Description:	MOUSE ANTI HUMAN CD79b:FITC
Specificity:	CD79b
Other names:	B29
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AT105-1
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	▪			Neat

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.

Target Species	Human		
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 A 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 corresponding to an extracellular region of CD79 beta

External Database Links

UniProt:

[P40259](#) [Related reagents](#)

Entrez Gene:

[974](#) CD79B [Related reagents](#)

Synonyms B29, IGB

Fusion Partners Spleen cells from immunised mouse were fused with cells of the mouse NS-1 myeloma cell line.

Specificity **Mouse anti Human CD79b antibody, clone AT105-1** recognizes an extracellular region of human B-cell antigen receptor complex-associated protein beta chain, also known as CD79b, B-cell-specific glycoprotein B29, Ig-beta or, Immunoglobulin-associated B29. CD79b is a cell surface antigen 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.

Mutations in the CD79B gene can lead to presentation of Agammaglobulinemia 6, autosomal recessive ([AGM6](#)), a disease demonstrating low or absent circulating B cells with the concomitant absence of antibody production. Patients present with multiple severe infections early in life ([Dobbs et al. 2007](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul

References

1. Cragg, M.S. *et al.* (2002) The alternative transcript of CD79b is overexpressed in B-CLL and inhibits signaling for apoptosis. [Blood. 100 \(9\): 3068-76.](#)
2. Zheng, B. *et al.* (2009) *In vivo* effects of targeting CD79b with antibodies and antibody-drug conjugates. [Mol Cancer Ther. 8 \(10\): 2937-46.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. 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.

Guarantee 12 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

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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