

Datasheet: MCA1514F

Description:	RAT ANTI MOUSE CD23:FITC
Specificity:	CD23
Other names:	FcεRII
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	2G8
Isotype:	IgG2a
Quantity:	0.5 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	■			1/5 - 1/50
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
Immunofluorescence			■	

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.

Target Species	Mouse		
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
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)		
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml		
Immunogen	Fc Epsilon R isolated from the 01.2B2 cell line.		
External Database Links	UniProt: P20693 Related reagents		

Entrez Gene:[14128](#) Fcεr2a [Related reagents](#)

Synonyms	Fcεr2a
Specificity	Rat anti Mouse CD23 antibody, clone 2G8 recognizes the murine CD23 cell surface antigen also known as FcεRII (Fc epsilon Receptor II). CD23 is a ~49 kDa glycoprotein expressed by most mature B cells, and also on some T cells, macrophages and platelets.
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).</p>
References	<ol style="list-style-type: none">1. Rao, M. <i>et al.</i> (1987) Characterization of a monoclonal antibody directed against the murine B lymphocyte receptor for IgE. J Immunol. 138 (6): 1845-51.2. Lewis, G. <i>et al.</i> (2004) Hyper IgE in New Zealand black mice due to a dominant-negative CD23 mutation. Immunogenetics. 56 (8): 564-71.3. Kilmon, M.A. <i>et al.</i> (2001) Regulation of IgE production requires oligomerization of CD23. J Immunol. 167 (6): 3139-45.4. McGreal, E.P. <i>et al.</i> (2002) Human C1qRp is identical with CD93 and the mNI-11 antigen but does not bind C1q. J Immunol. 168 (10): 5222-32.5. Brodaczewska, K. <i>et al.</i> (2017) Biodegradable Chitosan Decreases the Immune Response to <i>Trichinella spiralis</i> in Mice. Molecules. 22 (11)Nov 18 [Epub ahead of print].
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	Please see label for expiry date.
Health And Safety Information	<p>Material Safety Datasheet documentation available at:</p> <p>Material Safety Datasheet Documentation #10303 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf</p>
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA1212F\)](#)

Recommended Useful Reagents

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

MOUSE SEROBLOCK FcR (BUF041B)

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