

Datasheet: MCA1511FT

Description:	RAT ANTI MOUSE CD38:FITC
Specificity:	CD38
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	90
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

RRID AB_2073337

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 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 (NaN₃)

Approx. Protein Concentrations IgG concentration 0.5 mg/ml

Immunogen Mouse pre-B cells derived from IL-7 dependent bone marrow cultures.

External Database Links

UniProt:
[P56528](#) [Related reagents](#)

Entrez Gene:

Fusion Partners	Lymph node cells from an immunized rat were fused with cells of the mouse P3X63Ag.8.653 myeloma cell line.
Specificity	<p>Rat anti Mouse CD38 antibody, clone 90 recognizes the murine CD38 cell surface antigen, a ~42-46kDa glycoprotein expressed by B lymphocytes, a proportion of peripheral T lymphocytes and by peritoneal macrophages.</p> <p>In the mouse CD38 is expressed by follicular B cells, is down regulated on germinal centre B cells, and not expressed by mature plasma cells. This pattern of expression contrasts strikingly with that seen in the human.</p>
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. Lund, F. <i>et al.</i> (1995) Murine CD38: an immunoregulatory ectoenzyme. Immunol Today. 16 (10): 469-73.2. Oliver, A.M. <i>et al.</i> (1997) Mouse CD38 is down-regulated on germinal center B cells and mature plasma cells. J Immunol. 158 (3): 1108-15.
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	6 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10303 available at: 10303: https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf
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 \(BUF041B\)](#)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50

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