

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

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	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
Preparation	Antibody purified from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	<0.1% sodium azide (NaN ₃)		
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:

[12494](#)

Cd38

[Related reagents](#)

RRID

AB_2073337

Fusion Partners

Lymph node cells from an immunized rat were fused with cells of the mouse P3X63Ag.8.653 myeloma cell line.

Specificity

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.

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.

Flow Cytometry

Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl. The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/BUF041B](#)).

References

1. Lund, F. *et al.* (1995) Murine CD38: an immunoregulatory ectoenzyme. [Immunol Today. 16 \(10\): 469-73.](#)
2. Oliver, A.M. *et al.* (1997) Mouse CD38 is down-regulated on germinal center B cells and mature plasma cells. [J Immunol. 158 \(3\): 1108-15.](#)

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee

6 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA1511FT>
10040

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

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