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.

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
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<td>Flow Cytometry</td>
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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 0.5mg/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
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 10ul of the suggested working dilution to label $10^6$ cells in 100ul.

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).

**References**  

**Storage**  
Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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.

**Shelf Life**  
6 months from date of despatch.

**Health And Safety Information**  
Material Safety Datasheet documentation #10303 available at:  

**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)