## Datasheet: MCA1511PE

### Description: RAT ANTI MOUSE CD38:RPE

### Specificity:
CD38

### Format:
RPE

### Product Type:
Monoclonal Antibody

### Clone:
90

### Isotype:
IgG2a

### Quantity:
0.1 mg

### 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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Suggested Dilution</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>-</td>
<td>-</td>
<td>Neat - 1/10</td>
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</table>

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 R. Phycoerythrin (RPE) - liquid

### Max Ex/Em

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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</thead>
<tbody>
<tr>
<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
</tr>
</tbody>
</table>

### Buffer Solution
Phosphate buffered saline

### Preservative Stabilisers
0.1% Sodium Azide
0.5% Bovine Serum Albumin

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

### External Database Links

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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<tbody>
<tr>
<td>P56528</td>
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<table>
<thead>
<tr>
<th>Entrez Gene:</th>
<th>Related reagents</th>
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<tr>
<td>12494 Cd38</td>
<td></td>
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</table>

### 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 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.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #10304 available at:

### Related Products

#### Recommended Negative Controls
RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)

#### Recommended Useful Reagents
MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)