Datasheet: MCA74PE

Description: RAT ANTI MOUSE CD11b:RPE

Specificity: CD11b

Other names: INTEGRIN ALPHA M CHAIN, MAC-1

Format: RPE

Product Type: Monoclonal Antibody

Clone: M1/70.15

Isotype: IgG2b

Quantity: 100 TESTS

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

Species Cross Reactivity

Reacts with: Human, Rabbit

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution

Reconstitute with 1 ml distilled water

Max Ex/Em

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation (nm)</th>
<th>Emission (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 488nm laser</td>
<td>496</td>
<td>578</td>
</tr>
<tr>
<td>PE 561nm laser</td>
<td>546</td>
<td>578</td>
</tr>
</tbody>
</table>

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin
5% Sucrose

Immunogen

T cell enriched splenocytes from B10 mice.
Fusion Partners

Spleen cells from immunised DA rats were fused with cells of the NS1/1.Ag4.1 mouse myeloma cell line.

Specificity

**Rat anti Mouse CD11b antibody, clone M1/70.15** recognizes the murine CD11b cell surface antigen also known as the alpha M integrin chain or MAC-1, a differentiation antigen expressed by granulocytes, monocytes, NK cells and tissue macrophages.

The expression of CD11b increases during monocyte maturation and expression levels vary on tissue macrophages. Peritoneal macrophages are reported to express higher levels of CD11b than splenic macrophages.

Rat anti Mouse CD11b antibody, clone M1/70.15 has been reported to block iC3b binding to its receptor ([Beller et al. 1982](#)).

Rat anti Mouse CD11b antibody, clone M1/70.15 has been reported to as being suitable for use on PLP fixed paraffin embedded tissue but has not been tested for use on formalin fixed tissue ([Whiteland et al. 1995](#)).

This product is routinely tested in flow cytometry on mouse peritoneal macrophages.

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


adipose differentiation-related protein and ameliorates high-fat-diet-induced fatty liver in mice. 
Mol Nutr Food Res. 59 (6): 1155-70.

**Storage**

Prior to reconstitution store at +4°C. Following reconstitution 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**

12 months from date of reconstitution.

**Health And Safety Information**


**Regulatory**

For research purposes only

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**Related Products**

**Recommended Useful Reagents**

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

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