Datasheet: MCA711PE

Description: RAT ANTI MOUSE CD11b:RPE

Specificity: CD11b

Other names: INTEGRIN ALPHA M CHAIN, MAC-1

Format: RPE

Product Type: Monoclonal Antibody

Clone: 5C6

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>Flow Cytometry</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>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

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>
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<tbody>
<tr>
<td>PE 488nm laser</td>
<td>496</td>
<td>578</td>
</tr>
<tr>
<td>PE 561nm laser</td>
<td>546</td>
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Preparation

Purified IgG prepared by ion exchange chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

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

Immunogen

Thioglycollate-elicited Peritoneal Macrophages (TPM)
**External Database Links**

- UniProt: [P05555](UniProt:P05555) Related reagents

**Entrez Gene:**
- 16409 Itgam Related reagents

**Fusion Partners**

Spleen cells from AO rats were fused with cells of the Y3 rat myeloma cell line.

**Specificity**

Rat anti Mouse CD11b antibody, clone 5C6 recognizes CD11b, also known as the integrin alpha M chain. CD11b is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles.

Rat anti Mouse CD11b antibody, clone 5C6 immunoprecipitates a heterodimer of ~165 and ~95 kDa.

Rat anti Mouse CD11b antibody, clone 5C6 exhibits various functional properties, reportedly inhibiting adhesion in vitro and inflammatory recruitment in vivo. Rat anti Mouse CD11b antibody, clone 5C6 also inhibits delayed hypersensitivity, potentiates bacterial infections and inhibits type 1 diabetes.

**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**

12. Heydenreich, N. et al. (2012) C1-inhibitor protects from brain ischemia-reperfusion injury by...
combined antiinflammatory and antithrombotic mechanisms. Stroke. 43 (9): 2457-67.


**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**

12 months from date of reconstitution.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Useful Reagents**

MOUSE SEROBLOCK FcR (BUF041A)

MOUSE SEROBLOCK FcR (BUF041B)