Datasheet: MCA711F

**Description:** RAT ANTI MOUSE CD11b:FITC

**Specificity:** CD11b

**Other names:** INTEGRIN ALPHA M CHAIN, MAC-1

**Format:** FITC

**Product Type:** Monoclonal Antibody

**Clone:** 5C6

**Isotype:** IgG2b

**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](http://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>-</td>
<td></td>
<td></td>
<td>Neat</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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

#### Max Ex/Em

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation (nm)</th>
<th>Emission (nm)</th>
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<tr>
<td>FITC</td>
<td>490</td>
<td>520</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

#### Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

#### Immunogen

Thioglycollate-elicited Peritoneal Macrophages (TPM)
External Database Links

- 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

36. Mittal, A. et al. (2003) CD11b+ cells are the major source of oxidative stress in UV radiation-


### 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

18 months from date of despatch.

### Health And Safety Information

Material Safety Datasheet Documentation #10041 available at:

### Regulatory

For research purposes only