**Datasheet: MCA275PB**

**Description:** MOUSE ANTI RAT CD11b:Pacific Blue®

**Specificity:** CD11b

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

**Format:** Pacific Blue®

**Product Type:** Monoclonal Antibody

**Clone:** OX-42

**Isotype:** IgG2a

**Quantity:** 100 TESTS/1ml

**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>
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<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**

Rat

**Product Form**

Purified IgG conjugated to Pacific Blue® - liquid

**Max Ex/Em**

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Emission Max (nm)</th>
<th>Excitation Max (nm)</th>
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</thead>
<tbody>
<tr>
<td>Pacific Blue®</td>
<td>455</td>
<td>410</td>
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</table>

**Preparation**

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

**Buffer Solution**

Phosphate buffered saline

**Preservative**

0.09% Sodium Azide

1% Bovine Serum Albumin

**Stabilisers**

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml

**Immunogen**

Resident rat peritoneal macrophages.

**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U mouse myeloma cell line.

**Specificity**

Mouse anti Rat CD11b, clone OX-42, recognizes rat CD11b, also known as integrin alpha-M, the
receptor for the iC3b component of complement. CD11b is a 1151 amino acid single pass type 1 transmembrane glycoprotein possessing a single VVFA domain and multiple FG-GAP repeats. CD11b is expressed on most macrophages, including resident and activated peritoneal macrophages and Kupffer cells and around 35% of alveolar macrophages. The antibody also labels dendritic cells, granulocytes and microglia in the brain (Robinson et al. 1986).

Mouse anti Rat CD11b, clone OX-42 is reported to inhibit complement mediated rosettes (Robinson et al. 1986) as well as inhibit myelin binding and uptake (van der Laan et al. 1996).

**Flow Cytometry**

Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul.

**References**

19. Lavisse, S. et al. (2012) Reactive astrocytes overexpress TSPO and are detected by TSPO.

**Storage**

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. 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.

**Acknowledgements**

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**Health And Safety**

Material Safety Datasheet documentation available at:
Related Products

**Recommended Negative Controls**

MOUSE IgG2a NEGATIVE CONTROL: Pacific Blue® (MCA1210PB)