

## Datasheet: MCA275P647

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | MOUSE ANTI RAT CD11b:RPE-Alexa Fluor® 647 |
| <b>Specificity:</b>  | CD11b                                     |
| <b>Other names:</b>  | INTEGRIN ALPHA M CHAIN, MAC-1             |
| <b>Format:</b>       | RPE-ALEXA FLUOR® 647                      |
| <b>Product Type:</b> | Monoclonal Antibody                       |
| <b>Clone:</b>        | OX-42                                     |
| <b>Isotype:</b>      | IgG2a                                     |
| <b>Quantity:</b>     | 100 TESTS/1ml                             |

## 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).

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ■   |    |                | Neat - 1/10        |

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 R. Phycoerythrin (RPE) - Alexa Fluor® 647 - lyophilized             |                      |                   |
| Reconstitution  | Reconstitute with 1.0 ml distilled water                                                       |                      |                   |
| Max Ex/Em       | Fluorophore                                                                                    | Excitation Max (nm)  | Emission Max (nm) |
|                 | RPE-Alexa Fluor®647<br>488nm laser                                                             | 496                  | 667               |
|                 | RPE-Alexa Fluor®647<br>561nm laser                                                             | 546                  | 667               |
|                 |                                                                                                |                      |                   |
| Preparation     | Purified IgG prepared by affinity chromatography on protein G from tissue culture supernatant. |                      |                   |
| Buffer Solution | Phosphate buffered saline                                                                      |                      |                   |
| Preservative    | 0.09% Sodium Azide                                                                             |                      |                   |
| Stabilisers     | 1%                                                                                             | Bovine Serum Albumin |                   |
|                 | 5%                                                                                             | Sucrose              |                   |
| 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.

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**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 [vWFA](#) 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](#)).

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>          | <p>Store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Shelf Life</b>       | 12 months from date of reconstitution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10075 available at:<br>10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a> |
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|-------------------|----------------------------|
| <b>Regulatory</b> | For research purposes only |
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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:RPE-Alexa Fluor® 647 \(MCA1210P647\)](#)

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
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