

Datasheet: MCA275A488

**BATCH NUMBER 155161**

|                      |                                       |
|----------------------|---------------------------------------|
| <b>Description:</b>  | MOUSE ANTI RAT CD11b:Alexa Fluor® 488 |
| <b>Specificity:</b>  | CD11b                                 |
| <b>Other names:</b>  | INTEGRIN ALPHA M CHAIN, MAC-1         |
| <b>Format:</b>       | ALEXA FLUOR® 488                      |
| <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.

|                        |  |                            |                          |
|------------------------|--|----------------------------|--------------------------|
| <b>Target Species</b>  | Rat  |                            |                          |
| <b>Product Form</b>    | Purified IgG conjugated to Alexa Fluor® 488 - liquid   |                            |                          |
| <b>Max Ex/Em</b>       | <b>Fluorophore</b>   | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                        | Alexa Fluor®488  | 495                        | 519                      |
| <b>Preparation</b>     | Purified IgG prepared by affinity chromatography on protein G from tissue culture supernatant. |                            |                          |
| <b>Buffer Solution</b> | Phosphate buffered saline  |                            |                          |
| <b>Preservative</b>    | 0.09% Sodium Azide   |                            |                          |
| <b>Stabilisers</b>     | 1% Bovine Serum Albumin  |                            |                          |
| <b>Approx. Protein</b> | IgG concentration 0.05 mg/ml   |                            |                          |

## Concentrations

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**Immunogen** Resident rat peritoneal macrophages.

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**RRID** AB\_324754

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**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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## References

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**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.

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**Guarantee** 12 months from date of despatch

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**Regulatory** For research purposes only

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