

# Datasheet: MCA275B

### **BATCH NUMBER 1703**

Description:	MOUSE ANTI RAT CD11b:Biotin		
Specificity:	CD11b		
Other names:	INTEGRIN ALPHA M CHAIN, MAC-1		
Format:	Biotin		
Product Type:	Monoclonal Antibody		
Clone:	OX-42		
Isotype:	lgG2a		
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			Neat - 1/10
Immunohistology - Frozen	•			
Immunohistology - Paraffin (1)			-	

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.

(1)OX-42 is reported to be suitable for paraffin-embedded sections following PLP fixation (Whiteland et al., 1995).

Target Species	Rat	
Product Form	Purified IgG conjugated to Biotin - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein G supernatant	from tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide 1.0% Bovine Serum Albumin	

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Resident rat peritoneal macrophages.
RRID	AB_323662
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 posessing 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).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol> <li>Robinson, A.P. <i>et al.</i> (1986) Macrophage heterogeneity in the rat as delineated by two monoclonal antibodies MRC OX-41 and MRC OX-42, the latter recognizing complement receptor type 3. <a href="Immunology.57">Immunology.57</a> (2): 239-47.</li> <li>Barclay, A.N. (1981) The localization of population of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. <a href="Immunology.42:593-600">Immunology.42:593-600</a>.</li> <li>Milligan, C.E. <i>et al.</i> (1991) Differential immunochemical markers reveal the normal</li> </ol>

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Store at +4°C or at -20°C if preferred.	
This product should be stored undiluted.	
Storage in frost free freezers is not recommended. Avoid repear as this may denature the antibody. Should this product contain recommend microcentrifugation before use.	•
12 months from date of despatch	
Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA275B">https://www.bio-rad-antibodies.com/SDS/MCA275B</a> 10041	
For research purposes only	
	This product should be stored undiluted.  Storage in frost free freezers is not recommended. Avoid repear as this may denature the antibody. Should this product contain recommend microcentrifugation before use.  12 months from date of despatch  Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA275B 10041

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