

# Datasheet: MCA274GA

Description:	Description: MOUSE ANTI RAT CD172	
Specificity:	CD172a	
Other names:	SIRP ALPHA	
Format:	Purified	
Product Type:	Monoclonal Antibody	
Clone:	OX-41	
Isotype:	IgG2a	
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	<b>Suggested Dilution</b>
Flow Cytometry				1/100 - 1/200
Immunohistology - Frozen	•			
Immunohistology - Paraffin (1)				
ELISA			•	
Immunoprecipitation			•	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1)This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.

Target Species	Rat	
Product Form	Purified IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein C supernatant	6 from tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative	0.09% Sodium Azide	

Stabilisers				
Carrier Free	Yes			
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml			
Immunogen	Rat peritoneal macrophages.			
External Database	UniProt:			
Links	P97710 Related reagents			
	Entrez Gene:			
	25528 Sirpa Related reagents			
Synonyms	Bit, Mfr, Ptpns1, Shps1, Sirp			
RRID	AB_2254622			
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with the NS0/U mouse myeloma cell line.			
Specificity	Mouse anti Rat CD172a antibody, clone OX-41 recognizes rat CD172a, also known as Signal regulatory protein (SIRP). CD172a is expressed selectively by myeloid cells and by neurons.			
	MRC OX-41 binds to a different epitope on SIRP than ED9. Mouse anti Rat CD172a antibody, clone OX-41 does not completely block the interaction of CD172a - CD47 (Vernon-Wilson et al. 2000).			
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>Santos, L.L. <i>et al.</i> (1997) Anti-neutrophil monoclonal antibody therapy inhibits the development of adjuvant arthritis. <a href="Clin Exp Immunol.107">Clin Exp Immunol. 107</a>: 248-53.</li> </ol>			
	3. Adams, S. <i>et al.</i> (1998) Signal-regulatory protein is selectively expressed by myeloid and neuronal cells. <u>J Immunol. 161 (4): 1853-9.</u>			
	4. Milling, S.W. et al. (2006) Collection of lymph-borne dendritic cells in the rat. Nat Protoc.			
	<ul><li>1: 2263-70.</li><li>5. Moghaddami, M. <i>et al.</i> (2007) Recruitment of dendritic cells and macrophages during T</li></ul>			
	cell-mediated synovial inflammation. <u>Arthritis Res Ther. 9: R120.</u>			
	6. Varalakshmi, Ch, <i>et al.</i> (2008) Immunomodulatory effects of curcumin: <i>in-vivo</i> . Int Immunopharmacol. 8 (5): 688-700.			
	7. Zhou, Y.J. et al. (2010) The role of the lactadherin in promoting intestinal DCs			

development in vivo and invitro. Clin Dev Immunol. 2010: 357541.

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at

-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in

frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:

https://www.bio-rad-antibodies.com/SDS/MCA274GA

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**Regulatory** For research purposes only

### Related Products

# **Recommended Secondary Antibodies**

Goat Anti Mouse IgG (STAR77...) HRP

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Goat Anti Mouse IgG (STAR76...) RPE

Rabbit Anti Mouse IgG (STAR13...) HRP

Goat Anti Mouse IgG (STAR70...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

**Recommended Negative Controls** 

#### MOUSE IgG2a NEGATIVE CONTROL (MCA1210)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M383980:210513'

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