

Datasheet: MCA274B

Description:	MOUSE ANTI RAT CD172a:Biotin
Specificity:	CD172a
Other names:	SIRP ALPHA
Format:	Biotin
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			Neat
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)This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.

Target Species	Rat
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Antibody purified from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1.0% Bovine Serum Albumin
Approx. Protein	IgG concentration 0.1 mg/ml

Concentrations

Immunogen	Rat peritoneal macrophages.
External Database Links	UniProt:
	P97710 Related reagents
	Entrez Gene:
	25528 Sirpa Related reagents
Synonyms	Bit, Mfr, Ptpns1, Shps1, Sirp
RRID	AB_323655
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 <i>et al.</i> 2000).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	1. 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. lmmunology.57 (2): 239-47.
	2. Santos, L.L. <i>et al.</i> (1997) Anti-neutrophil monoclonal antibody therapy inhibits the
	development of adjuvant arthritis. <u>Clin Exp Immunol. 107: 248-53.</u> 3. Adams, S. <i>et al.</i> (1998) Signal-regulatory protein is selectively expressed by myeloid
	and neuronal cells. J Immunol. 161 (4): 1853-9.
	4. Milling, S.W. et al. (2006) Collection of lymph-borne dendritic cells in the rat. Nat Protoc.
	<u>1: 2263-70.</u>
	5. Moghaddami, M. et al. (2007) Recruitment of dendritic cells and macrophages during T
	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> . <u>Int</u>
	Immunopharmacol. 8 (5): 688-700.
	7. Zhou, Y.J. <i>et al.</i> (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 #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA274B 10041
Regulatory	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M405512:220916'

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