

Datasheet: MCA274R

Description:	MOUSE ANTI RAT CD172a
Specificity:	CD172a
Other names:	SIRP ALPHA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-41
Isotype:	IgG2a
Quantity:	0.25 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	▪			1/10 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Rat peritoneal macrophages.
External Database Links	<p>UniProt: P97710 Related reagents</p> <p>Entrez Gene: 25528 Sirpa Related reagents</p>
Synonyms	Bit, Mfr, Ptpns1, Shps1, Sirp
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with the NS0/U mouse myeloma cell line.
Specificity	<p>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.</p> <p>MRC OX-41 binds to a different epitope on SIRP than ED9. It does not block the interaction of CD172a - CD47.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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. Immunology. 57 (2): 239-47. 2. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. Immunology. 42 (4): 593-600. 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. Santos, L.L. <i>et al.</i> (1997) Anti-neutrophil monoclonal antibody therapy inhibits the development of adjuvant arthritis. Clin Exp Immunol. 107: 248-53. 5. Milling, S.W. <i>et al.</i> (2006) Collection of lymph-borne dendritic cells in the rat. Nat Protoc. 1: 2263-70. 6. Moghaddami, M. <i>et al.</i> (2007) Recruitment of dendritic cells and macrophages during T cell-mediated synovial inflammation. Arthritis Res Ther. 9: R120. 7. Zhou, Y.J. <i>et al.</i> (2010) The role of the lactadherin in promoting intestinal DCs development <i>in vivo</i> and <i>in vitro</i>. Clin Dev Immunol. 2010: 357541. 8. Varalakshmi, Ch, <i>et al.</i> (2008) Immunomodulatory effects of curcumin: <i>in-vivo</i>. Int Immunopharmacol. 8 (5): 688-700.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA1210\)](#)

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