

Datasheet: MCA274F

BATCH NUMBER 158681

Description:	MOUSE ANTI RAT CD172a:FITC
Specificity:	CD172a
Other names:	SIRP ALPHA
Format:	FITC
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	▪			

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.

Target Species	Rat		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1.0% Bovine Serum Albumin		
Approx. Protein	Isotype 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_323623

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 10⁶ cells in 100ul.

References

1. Robinson, A.P. *et al.* (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. Santos, L.L. *et al.* (1997) Anti-neutrophil monoclonal antibody therapy inhibits the development of adjuvant arthritis. [Clin Exp Immunol. 107: 248-53.](#)
 3. Adams, S. *et al.* (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. 1: 2263-70.](#)
 5. Moghaddami, M. *et al.* (2007) Recruitment of dendritic cells and macrophages during T cell-mediated synovial inflammation. [Arthritis Res Ther. 9: R120.](#)
 6. Varalakshmi, Ch, *et al.* (2008) Immunomodulatory effects of curcumin: *in-vivo*. [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 *in vitro*. [Clin Dev Immunol. 2010: 357541.](#)
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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. This product is photosensitive and should be protected from light.

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/MCA274F
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA1210F\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M385558:210513'

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