

Datasheet: MCA274F

BATCH NUMBER 1710

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 immunised 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. It does not block the interaction of CD172a - CD47.

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. 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. *et al.* (1998) Signal-regulatory protein is selectively expressed by myeloid and neuronal cells. [J Immunol. 161 \(4\): 1853-9.](#)
 4. Santos, L.L. *et al.* (1997) Anti-neutrophil monoclonal antibody therapy inhibits the development of adjuvant arthritis. [Clin Exp Immunol. 107: 248-53.](#)
 5. Milling, S.W. *et al.* (2006) Collection of lymph-borne dendritic cells in the rat. [Nat Protoc. 1: 2263-70.](#)
 6. Moghaddami, M. *et al.* (2007) Recruitment of dendritic cells and macrophages during T cell-mediated synovial inflammation. [Arthritis Res Ther. 9: R120.](#)
 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.](#)
 8. Varalakshmi, Ch, *et al.* (2008) Immunomodulatory effects of curcumin: *in-vivo*. [Int Immunopharmacol. 8 \(5\): 688-700.](#)
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Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA274F
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Regulatory	For research purposes only
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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
'M367411:200529'

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