Datasheet: MCA620R BATCH NUMBER 149799

Description:	MOUSE ANTI RAT CD172a
Specificity:	CD172a
Other names:	SIRP ALPHA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ED9
Isotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				1/10 - 1/50
Immunohistology - Frozen (1)	•			1/100 - 1/1000
Immunohistology - Paraffin				
Immunohistology - Resin		•		
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)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Rat	
Product Form	Purified IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein A supernatant	from tissue culture

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Spleen cell homogenate.
External Database Links	UniProt: <u>P97710</u> <u>Related reagents</u> Entrez Gene: <u>25528</u> Sirpa <u>Related reagents</u>
Synonyms	Bit, Mfr, Ptpns1, Shps1, Sirp
RRID	AB_323093
Fusion Partners	Spleen cells from immunised mice were fused with cells of the Sp2/0 Ag-14 myeloma cell line.
Specificity	Mouse anti Rat CD172a antibody, clone ED9 recognizes rat Tyrosine-protein phosphatase non-receptor type substrate 1, also known as CD172a, Signal-regulatory protein alpha-1, SIRPα, -1, SHP substrate 1, Macrophage membrane protein MFP150 or Macrophage fusion receptor. CD172a is a 509 amino acid ~56 kDa single pass type 1 transmembrane glycoprotein expressed selectively by myeloid cells and by neurons (UniProt: P97710). Mouse anti Rat CD172a antibody, clone ED9 has been reported to bind to an alternative epitpe to another anti CD172 antibody, clone OX-41 (Adams <i>et al.</i> 1998) and has been reported to block the interaction of CD172a - CD47 (de Vries <i>et al.</i> 2002).
Specificity Flow Cytometry	phosphatase non-receptor type substrate 1, also known as CD172a, Signal-regulatory protein alpha-1, SIRPα, -1, SHP substrate 1, Macrophage membrane protein MFP150 or Macrophage fusion receptor. CD172a is a 509 amino acid ~56 kDa single pass type 1 transmembrane glycoprotein expressed selectively by myeloid cells and by neurons (<u>UniProt: P97710</u>). Mouse anti Rat CD172a antibody, clone ED9 has been reported to bind to an alternative epitpe to another anti CD172 antibody, clone OX-41 (<u>Adams <i>et al.</i> 1998</u>) and has been reported to block the interaction of CD172a - CD47 (<u>de</u>

	5. Blackbeard, J. <i>et al.</i> (2007) Quantification of the rat spinal m peripheral nerve injury as revealed by immunohistochemical in	•
	cytometry. J Neurosci Methods. 164 (2): 207-17.	lage analysis and now
	 6. Bode, U. <i>et al.</i> (2008) Dendritic cell subsets in lymph nodes specific draining area and influence the phenotype and fate of <u>Immunology. 123 (4): 480-90.</u> 7. Chang, J.C. <i>et al.</i> (2019) Early Immune Response to Acute Rat Model of Lung Transplantation. <u>Exp Clin Transplant. 17 (1)</u> 8. Holler, J. <i>et al.</i> (2008) Neuropeptide Y is expressed by rat m leukocytes and strongly down-regulated during inflammation. <u>J 6906-12.</u> 	primed T cells. Gastric Fluid Aspiration in a <u>): 84-92.</u> ononuclear blood
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezi denature the antibody. Should this product contain a precipitate microcentrifugation before use.	• • •
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/MCA620R 10040	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
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)	<u>FITC</u>		
Goat Anti Mouse IgG (STAR77)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
Recommended Negative Controls			

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

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America	Fax: +1 919 878 3751		Fax: +
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