

Datasheet: MCA519PET

Description:	RAT ANTI MOUSE MACROPHAGES/MONOCYTES:RPE
Specificity:	MACROPHAGES/MONOCYTES
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MOMA-2
Isotype:	IgG2b
Quantity:	25 TESTS

Product Details

RRID AB_1102754

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)	■			Neat - 1/10

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)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

Target Species

Mouse

Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution

Reconstitute with 0.25 ml distilled water

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

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
1% Bovine Serum Albumin

Immunogen

Mouse lymph node stroma.

Fusion Partners

Spleen cells from immunised Wistar rats were fused with cells of the SP/0 myeloma cell line.

Specificity	Rat anti Mouse Macrophages/Monocytes antibody, clone MOMA-2 recognizes an intracellular antigen of mouse macrophages and monocytes. It reacts strongly with macrophages in lymphoid organs such as tingible body macrophages and macrophages in T cell dependant areas and is extremely useful in immunohistochemistry. Reacts on all mouse strains tested.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> van der Sluis, R.J. <i>et al.</i> (2014) Prolactin receptor antagonism uncouples lipids from atherosclerosis susceptibility. J Endocrinol. 222 (3): 341-50. Nakai, Y. <i>et al.</i> (2004) Natural killer T cells accelerate atherogenesis in mice. Blood. 104 (7): 2051-9. Skoura, A. <i>et al.</i> (2011) Sphingosine-1-phosphate receptor-2 function in myeloid cells regulates vascular inflammation and atherosclerosis. Arterioscler Thromb Vasc Biol. 31 (1): 81-5. Madrigal-Matute, J. <i>et al.</i> (2010) Heat shock protein 90 inhibitors attenuate inflammatory responses in atherosclerosis. Cardiovasc Res. 86 (2): 330-7. de Jager, S.C. <i>et al.</i> (2011) Growth differentiation factor 15 deficiency protects against atherosclerosis by attenuating CCR2-mediated macrophage chemotaxis. J Exp Med. 208 (2): 217-25. Frossard, J.L. <i>et al.</i> (2011) Role of CCL-2, CCR-2 and CCR-4 in cerulein-induced acute pancreatitis and pancreatitis-associated lung injury. J Clin Pathol. 64 (5): 387-93. Bhatia, V.K. <i>et al.</i> (2007) Complement C1q reduces early atherosclerosis in low-density lipoprotein receptor-deficient mice. Am J Pathol. 170: 416-26. Bourdillon, M.C. <i>et al.</i> (2006) Reduced atherosclerotic lesion size in P-selectin deficient apolipoprotein E-knockout mice fed a chow but not a fat diet. J Biomed Biotechnol. 2006 (2): 49193. Duewell, P. <i>et al.</i> (2010) NLRP3 inflammasomes are required for atherogenesis and activated by cholesterol crystals. Nature. 464: 1357-61. Weingärtner, O. <i>et al.</i> (2011) Differential effects on inhibition of cholesterol absorption by plant stanol and plant sterol esters in apoE^{-/-} mice. Cardiovasc Res. 90: 484-92. Yamamoto, S. <i>et al.</i> (2011) Oral activated charcoal adsorbent (AST-120) ameliorates extent and instability of atherosclerosis accelerated by kidney disease in apolipoprotein E-deficient mice. Nephrol Dial Transplant. 26 (8): 2491-7. Ng, H.P. <i>et al.</i> (2011) Attenuated atherosclerotic lesions in apoE-Fcγ-chain-deficient hyperlipidemic mouse model is associated with inhibition of Th17 cells and promotion of regulatory T cells. J Immunol. 187 (11): 6082-93. Ruf, M.T. <i>et al.</i> (2012) Chemotherapy-Associated Changes of Histopathological Features of <i>Mycobacterium ulcerans</i> Lesions in a Buruli Ulcer Mouse Model. Antimicrob Agents Chemother. 56: 687-96. Che, J. <i>et al.</i> (2011) Endothelial FGF receptor signaling accelerates atherosclerosis. Am J Physiol Heart Circ Physiol. 300: H154-61. Chen, S. (2010) IL-17A is proatherogenic in high-fat diet-induced and <i>Chlamydia pneumoniae</i> infection-accelerated atherosclerosis in mice. J Immunol. 185: 5619-27. Dieleman, L.A. <i>et al.</i> (1998) Chronic experimental colitis induced by dextran sulphate sodium (DSS) is characterized by Th1 and Th2 cytokines. Clin Exp Immunol. 114: 385-91. Gao, Q. <i>et al.</i> (2010) A critical function of Th17 proinflammatory cells in the development of atherosclerotic plaque in mice. J Immunol. 185: 5820-7. Pedersen, T.X. <i>et al.</i> (2010) The pro-inflammatory effect of uraemia overrules the anti-atherogenic potential of immunization with oxidized LDL in apoE^{-/-} mice. Nephrol Dial Transplant. 25: 2486-91. Lee, M.R. <i>et al.</i> (2014) The adipokine Retnla modulates cholesterol homeostasis in hyperlipidemic mice. Nat Commun. 5: 4410. Hoeksema, M.A. <i>et al.</i> (2014) Targeting macrophage Histone deacetylase 3 stabilizes

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Storage

Prior to reconstitution store at +4°C.
Following reconstitution store at +4°C.
DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of reconstitution.

Health And Safety Information

Material Safety Datasheet documentation #10075 available at:
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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