

## Datasheet: MCA519A647

<b>Description:</b>	RAT ANTI MOUSE MACROPHAGES/MONOCYTES:Alexa Fluor® 647
<b>Specificity:</b>	MACROPHAGES/MONOCYTES
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MOMA-2
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 TESTS/1ml

## 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](http://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.

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

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<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®647</td> <td>650</td> <td>665</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®647	650	665					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.09% Sodium Azide						

<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05mg/ml
<b>Immunogen</b>	Mouse lymph node stroma.
<b>RRID</b>	AB_931731
<b>Fusion Partners</b>	Spleen cells from immunised Wistar rats were fused with cells of the SP/0 myeloma cell line.
<b>Specificity</b>	<b>Rat anti Mouse Macrophages/Monocytes antibody, clone MOMA-2</b> 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.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. van der Sluis, R.J. <i>et al.</i> (2014) Prolactin receptor antagonism uncouples lipids from atherosclerosis susceptibility. <a href="#">J Endocrinol. 222 (3): 341-50.</a></li> <li>2. Nakai, Y. <i>et al.</i> (2004) Natural killer T cells accelerate atherogenesis in mice. <a href="#">Blood. 104 (7): 2051-9.</a></li> <li>3. Skoura, A. <i>et al.</i> (2011) Sphingosine-1-phosphate receptor-2 function in myeloid cells regulates vascular inflammation and atherosclerosis. <a href="#">Arterioscler Thromb Vasc Biol. 31 (1): 81-5.</a></li> <li>4. Madrigal-Matute, J. <i>et al.</i> (2010) Heat shock protein 90 inhibitors attenuate inflammatory responses in atherosclerosis. <a href="#">Cardiovasc Res. 86 (2): 330-7.</a></li> <li>5. de Jager, S.C. <i>et al.</i> (2011) Growth differentiation factor 15 deficiency protects against atherosclerosis by attenuating CCR2-mediated macrophage chemotaxis. <a href="#">J Exp Med. 208 (2): 217-25.</a></li> <li>6. 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. <a href="#">J Clin Pathol. 64 (5): 387-93.</a></li> <li>7. Bhatia, V.K. <i>et al.</i> (2007) Complement C1q reduces early atherosclerosis in low-density lipoprotein receptor-deficient mice. <a href="#">Am J Pathol. 170: 416-26.</a></li> <li>8. 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. <a href="#">J Biomed Biotechnol. 2006 (2): 49193.</a></li> <li>9. Duewell, P. <i>et al.</i> (2010) NLRP3 inflammasomes are required for atherogenesis and activated by cholesterol crystals. <a href="#">Nature. 464: 1357-61.</a></li> <li>10. Weingärtner, O. <i>et al.</i> (2011) Differential effects on inhibition of cholesterol absorption by plant stanol and plant sterol esters in apoE<sup>-/-</sup> mice. <a href="#">Cardiovasc Res. 90: 484-92.</a></li> <li>11. 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. <a href="#">Nephrol Dial Transplant. 26 (8): 2491-7.</a></li> <li>12. 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</li> </ol>

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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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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

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