

Datasheet: MCA2681A488

Description:	RAT ANTI MOUSE ABCA1:Alexa Fluor® 488
Specificity:	ABCA1
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	5A1-1422
Isotype:	IgG2a
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse		
Product Form	Purified IgG conjugated to Alexa Fluor® 488- liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
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 (NaN ₃) 1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05mg/ml		
Immunogen	ABCA1 transfected HeLa cells.		

External Database Links	<p>UniProt: P41233 Related reagents</p> <p>Entrez Gene: 11303 Abca1 Related reagents</p>
Synonyms	Abc1
RRID	AB_1604580
Specificity	<p>Rat anti Mouse ABCA1 antibody, clone 5A1.1422 recognizes murine adenosine triphosphate (ATP) Binding cassette transporter 1 (ABCA1). The ABC transporters are a large family of conserved proteins that transport a wide variety of molecules across cellular membranes. ABCA1 is a member of the ABC-A sub-family, which acts as a lipid translocator. The molecule was originally identified as a scavenger receptor on macrophages and research shows that ABCA1 also plays a major role in cholesterol metabolism. ABCA1 may play an important role in protecting against cardiovascular disease.</p> <p>Mutations in ABCA1 gene have been associated with Tangier disease, a genetic disorder of lipid metabolism, and the more common Familial HDL deficiency, presenting with many of the same symptoms.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none"> 1. Pradel, L.C. <i>et al.</i> (2009) ATP-binding cassette transporter hallmarks tissue macrophages and modulates cytokine-triggered polarization programs. Eur J Immunol. 39 (8): 2270-80. 2. Wang, Y. <i>et al.</i> (2019) Smooth Muscle Cells Contribute the Majority of Foam Cells in ApoE (Apolipoprotein E)-Deficient Mouse Atherosclerosis. Arterioscler Thromb Vasc Biol. 39 (5): 876-87.
Further Reading	1. Zarubica, A. <i>et al.</i> (2007) ABCA1, from pathology to membrane function. Pflugers Arch. 453 (5): 569-79.
Storage	<p>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.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase

product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA2681A488>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA1212A488\)](#)

Recommended Useful Reagents

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

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

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

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