

# Datasheet: MCA2681PE

**BATCH NUMBER 151224**

<b>Description:</b>	RAT ANTI MOUSE ABCA1:RPE
<b>Specificity:</b>	ABCA1
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	5A1-1422
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS

## 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	▪			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.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<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 Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
	1% Bovine Serum Albumin		
	5% Sucrose		

Immunogen	ABCA1 transfected HeLa cells.
External Database Links	<p><b>UniProt:</b>  <a href="#">P41233</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">11303</a>    Abca1    <a href="#">Related reagents</a></p>
Synonyms	Abc1
RRID	AB_2220006
Specificity	<p><b>Rat anti Mouse ABCA1 antibody, clone 5A1.1422</b> 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 <a href="#">Tangier disease</a>, a genetic disorder of lipid metabolism, and the more common <a href="#">Familial HDL deficiency</a>, presenting with many of the same symptoms.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
References	<ol style="list-style-type: none"> <li>1. Pradel, L.C. <i>et al.</i> (2009) ATP-binding cassette transporter hallmarks tissue macrophages and modulates cytokine-triggered polarization programs. <a href="#">Eur J Immunol. 39 (8): 2270-80.</a></li> <li>2. Wang, Y. <i>et al.</i> (2019) Smooth Muscle Cells Contribute the Majority of Foam Cells in ApoE (Apolipoprotein E)-Deficient Mouse Atherosclerosis. <a href="#">Arterioscler Thromb Vasc Biol. : ATVBAHA119312434. [Epub ahead of print]</a></li> </ol>
Further Reading	1. Zarubica, A. <i>et al.</i> (2007) ABCA1, from pathology to membrane function. <a href="#">Pflugers Arch. 453 (5): 569-79.</a>
Storage	<p>Store at +4°C. DO NOT FREEZE.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2681PE">https://www.bio-rad-antibodies.com/SDS/MCA2681PE</a></p> <p>20487</p>

## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

### 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](https://bio-rad-antibodies.com/datasheets)

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