

Datasheet: MCA2681A647

BATCH NUMBER 153267

Description:	RAT ANTI MOUSE ABCA1:Alexa Fluor® 647
Specificity:	ABCA1
Other names:	ATP BINDING CASSETTE TRANSPORTER 1
Format:	ALEXA FLUOR® 647
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 - 1/10

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® 647- liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein	IgG concentration 0.05mg/ml		

Concentrations

Immunogen ABCA1 transfected HeLa cells.

External Database Links

UniProt:

[P41233](#) [Related reagents](#)

Entrez Gene:

[11303](#) Abca1 [Related reagents](#)

Synonyms Abc1

RRID AB_1604582

Specificity

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.

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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Pradel, L.C. *et al.* (2009) ATP-binding cassette transporter hallmarks tissue macrophages and modulates cytokine-triggered polarization programs. [Eur J Immunol. 39 \(8\): 2270-80.](#)
 2. Wang, Y. *et al.* (2019) Smooth Muscle Cells Contribute the Majority of Foam Cells in ApoE (Apolipoprotein E)-Deficient Mouse Atherosclerosis. [Arterioscler Thromb Vasc Biol. : ATVBAHA119312434. \[Epub ahead of print\]](#)
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Further Reading

1. Zarubica, A. *et al.* (2007) ABCA1, from pathology to membrane function. [Pflugers Arch. 453 \(5\): 569-79.](#)
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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. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2681A647>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1212A647\)](#)

Recommended Useful Reagents

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

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

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