

Datasheet: MCA2113A647T

Description:	MOUSE ANTI HUMAN CD46:Alexa Fluor® 647
Specificity:	CD46
Other names:	MEMBRANE CO-FACTOR PROTEIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	MEM-258
Isotype:	IgG1
Quantity:	25 TESTS/0.25ml

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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	HPB-ALL cell line
External Database Links	<p>UniProt: P15529 MCP_HUMAN Related reagents</p> <p>Entrez Gene: 4179 CD46 Related reagents</p>
Synonyms	MCP, MIC10

Specificity MCA2113A647 recognises the human CD46 cell surface antigen, a broadly expressed glycoprotein also known as membrane co-factor protein (MCP).

CD46 functions as an inhibitor of complement activation limiting the formation and activity of C3 convertases. CD46

is expressed by all nucleated cells, often as multiple isoforms on the same cells. The molecule is also expressed by sperm and may be important in the process of fertilisation.

Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 or 100ul whole blood. Method sheets are available on request
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References	<ol style="list-style-type: none">1. Sirena, D. <i>et al.</i> (2004) The human membrane cofactor CD46 is a receptor for species B adenovirus serotype 3. J. Virol. 78:4454-4462.2. Fremeaux-Bacchi. <i>et al.</i> (2006) Genetic and functional analyses of membrane cofactor protein (CD46) mutations in atypical Hemolytic Uremic Syndrome. J. Am. Soc. Nephrol. 17:2017-2025.3. Fleischli, C. <i>et al.</i> (2005) The distal short consensus repeats 1 and 2 of the membrane cofactor protein CD46 and their distance from the cell membrane determine productive entry of species B adenovirus serotype 35. J Virol. 79:10013-22.4. Sweigard, J.H. <i>et al.</i> (2010) Adenovirus vectors targeting distinct cell types in the retina. Invest Ophthalmol Vis Sci. 51:2219-28.5. Yang, P. <i>et al.</i> (2009) Expression and modulation of RPE cell membrane complement regulatory proteins. Invest Ophthalmol Vis Sci. 50: 3473-81.6. Bahat, A. and Eisenbach, M. (2010) Human sperm thermotaxis is mediated by phospholipase C and inositol trisphosphate receptor Ca^{2+} channel. Biol Reprod. 82: 606-16.7. Bienaime, F. <i>et al.</i> (2010) Mutations in components of complement influence the outcome of Factor I-associated atypical hemolytic uremic syndrome. Kidney Int. 77: 339-49.8. Wang, H. <i>et al.</i> (2008) In vitro and in vivo properties of adenovirus vectors with increased affinity to CD46. J Virol. 82: 10567-79.
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Storage	Store at $+4^{\circ}C$ or at $-20^{\circ}C$ if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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.
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Shelf Life	18 months from date of despatch.
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Acknowledgements	The Alexa Fluor® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays, and are covered by pending and issued patents.
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Health And Safety Information	Material Safety Datasheet Documentation #10041 available at: http://www.abdserotec.com/uploads/MSDS/10041.pdf
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Other formats and applications

This reagent is also available in a [FITC](#), [Purified](#), [RPE](#) format and is useful for Immunoprecipitation, Western Blotting, Immunofluorescence, Functional Assays

For research purposes only, unless otherwise specified in writing by AbD Serotec.

'M176136:110225'



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