

Datasheet: MCA2113PE

BATCH NUMBER 1701

Description:	MOUSE ANTI HUMAN CD46:RPE
Specificity:	CD46
Other names:	MEMBRANE CO-FACTOR PROTEIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MEM-258
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

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 R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Immunogen	HPB-ALL cell line.		

External Database Links	UniProt: P15529 Related reagents
	Entrez Gene: 4179 CD46 Related reagents
Synonyms	MCP, MIC10
RRID	AB_324204
Specificity	<p>Mouse anti Human CD46 antibody, clone MEM-258 recognizes the human CD46 cell surface antigen, also known as membrane co-factor protein (MCP), Trophoblast leukocyte common antigen or TLX. CD46 is a 392 amino acid (including a 34 aa signal peptide) ~43-60 kDa single pass type 1 transmembrane glycoprotein expressed by all cell types with the exception of erythrocytes.</p> <p>CD46 functions as areceptor for complement and inhibitor of complement activation, limiting the formation and activity of C3 convertases. CD46 is expressed by all nucleated cells, often as multiple isoforms (Seya <i>et al.</i> 1993) on the same cells. The molecule is also expressed by sperm and may be important in the process of fertilisation (Carver-Ward <i>et al.</i> 1996).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ or 100ul whole blood.
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 (9): 4454-62. 2. Fremeaux-Bacchi, V. <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 (7): 2017-25. 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 Ca²⁺ channel. Biol Reprod. 82: 606-16. 7. Bieniaime, 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) <i>In vitro</i> and <i>in vivo</i> properties of adenovirus vectors with increased affinity to CD46. J Virol. 82: 10567-79. 9. Hara, H. <i>et al.</i> (2011) Initial <i>in vitro</i> investigation of the human immune response to corneal cells from genetically engineered pigs. Invest Ophthalmol Vis Sci. 52: 5278-86. 10. El Karoui, K. <i>et al.</i> (2012) A clinicopathologic study of thrombotic microangiopathy in

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Storage

Store at +4°C.

DO NOT FREEZE

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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20486 available at: https://www.bio-rad-antibodies.com/SDS/MCA2113PE 20486
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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'M375168:201218'

Printed on 24 May 2025