

## Datasheet: MCA2113PET

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

Target Species	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 0.25 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 from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN <sub>3</sub> )		
Stabilisers	1% bovine serum albumin		
	5% sucrose		

Immunogen	HPB-ALL cell line.
External Database Links	<p>UniProt:  <a href="#">P15529</a>    <a href="#">Related reagents</a></p> <p>Entrez Gene:  <a href="#">4179</a>    CD46    <a href="#">Related reagents</a></p>
Synonyms	MCP, MIC10
RRID	AB_1102096
Specificity	<p><b>Mouse anti Human CD46 antibody, clone MEM-258</b> 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 10µl of the suggested working dilution to label 10 <sup>6</sup> or 100µl whole blood
References	<ol style="list-style-type: none"> <li>1. Sirena D <i>et al.</i> (2004) The human membrane cofactor CD46 is a receptor for species B adenovirus serotype 3. <a href="#">J Virol. 78 (9): 4454-62.</a></li> <li>2. Fremeaux-Bacchi, V. <i>et al.</i> (2006) Genetic and functional analyses of membrane cofactor protein (CD46) mutations in atypical hemolytic uremic syndrome. <a href="#">J Am Soc Nephrol. 17 (7): 2017-25.</a></li> <li>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. <a href="#">J Virol. 79:10013-22.</a></li> <li>4. Sweigard, J.H. <i>et al.</i> (2010) Adenovirus vectors targeting distinct cell types in the retina. <a href="#">Invest Ophthalmol Vis Sci. 51:2219-28.</a></li> <li>5. Yang, P. <i>et al.</i> (2009) Expression and modulation of RPE cell membrane complement regulatory proteins. <a href="#">Invest Ophthalmol Vis Sci. 50: 3473-81.</a></li> <li>6. Bahat, A. and Eisenbach, M. (2010) Human sperm thermotaxis is mediated by phospholipase C and inositol trisphosphate receptor Ca<sup>2+</sup> channel. <a href="#">Biol Reprod. 82: 606-16.</a></li> <li>7. Bieniaime, F. <i>et al.</i> (2010) Mutations in components of complement influence the outcome of Factor I-associated atypical hemolytic uremic syndrome. <a href="#">Kidney Int. 77: 339-49.</a></li> <li>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. <a href="#">J Virol. 82: 10567-79.</a></li> <li>9. Hara, H. <i>et al.</i> (2011) Initial <i>in vitro</i> investigation of the human immune response to</li> </ol>

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#### Storage

Prior to reconstitution store at +4°C.  
 After reconstitution 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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2113PET">https://www.bio-rad-antibodies.com/SDS/MCA2113PET</a> 20487
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M419567:230616'

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