

## Datasheet: MCA2804C

<b>Description:</b>	MOUSE ANTI HUMAN CD14:RPE-Cy5
<b>Specificity:</b>	CD14
<b>Format:</b>	RPE-CY5
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	61D3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human								
Species Cross Reactivity	Reacts with: Bovine, Dog, Rabbit, Sheep, Pig, Cynomolgus monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.								
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Cy5 - liquid								
Max Ex/Em	<table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>RPE-Cy5 488nm laser</td><td>496</td><td>667</td></tr></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE-Cy5 488nm laser	496	667		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
RPE-Cy5 488nm laser	496	667							
Preparation	Antibody purified from ascites								
Buffer Solution	Phosphate buffered saline								
Preservative Stabilisers	<0.1% Sodium Azide (NaN <sub>3</sub> )								

Stabilizing agent (sucrose)

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**External Database**

**Links**

**UniProt:**

[P08571](#)

[Related reagents](#)

**Entrez Gene:**

[929](#)

CD14

[Related reagents](#)

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**RRID**

AB\_1100736

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**Specificity**

**Mouse anti Human CD14 antibody, clone 61D3** recognizes human CD14, otherwise known as monocyte differentiation antigen. It is a ~40 kDa protein found on cell surfaces, particularly macrophages. CD14 acts as a co-receptor (along with the Toll-like receptor TLR 4 and MD-2) to mediate the innate immune response to bacterial lipopolysaccharide.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or 100ul whole blood.

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**References**

1. Balasubramanian, K. & Schroit, A.J. (1998) Characterization of phosphatidylserine-dependent beta2-glycoprotein I macrophage interactions. Implications for apoptotic cell clearance by phagocytes. [J Biol Chem. 273 \(44\): 29272-7.](#)
2. Giles, K.M. *et al.* (2001) Glucocorticoid augmentation of macrophage capacity for phagocytosis of apoptotic cells is associated with reduced p130Cas expression, loss of paxillin/pyk2 phosphorylation, and high levels of active Rac. [J Immunol. 167: 976-86.](#)
3. Henriksen, P.A. *et al.* (2004) Gene delivery of the elastase inhibitor elafin protects macrophages from neutrophil elastase-mediated impairment of apoptotic cell recognition. [FEBS Lett. 574: 80-4.](#)
4. Gagro, A. *et al.* (2006) Type I cytokine profiles of human naïve and memory B lymphocytes: a potential for memory cells to impact polarization. [Immunology. 118 \(1\): 66-77.](#)
5. Amorim, I.F. *et al.* (2011) Toll receptors type-2 and CR3 expression of canine monocytes and its correlation with immunohistochemistry and xenodiagnosis in visceral leishmaniasis. [PLoS One. 6: e27679.](#)
6. Eleftheriou D *et al.* (2012) Endothelial injury in childhood stroke with cerebral arteriopathy: a cross-sectional study. [Neurology. 79 \(21\): 2089-96.](#)
7. Raghuraman, S. *et al.* (2012) Spontaneous clearance of chronic hepatitis C virus infection is associated with appearance of neutralizing antibodies and reversal of T-cell exhaustion. [J Infect Dis. 205: 763-71.](#)
8. Werner, J.M. *et al.* (2013) Innate immune responses in hepatitis C virus-exposed healthcare workers who do not develop acute infection. [Hepatology. 58 \(5\): 1621-31.](#)
9. Serti, E. *et al.* (2015) Successful Interferon-Free Therapy of Chronic Hepatitis C Virus Infection Normalizes Natural Killer Cell Function. [Gastroenterology. 149 \(1\): 190-200.e2.](#)
10. Santos, B.P. *et al.* (2017) Blood and milk polymorphonuclear leukocyte and monocyte/macrophage functions in naturally caprine arthritis encephalitis virus infection in dairy goats. [Vet Immunol Immunopathol. 188: 21-6.](#)
11. Santos, B.P. *et al.* (2017) Blood and milk polymorphonuclear leukocyte and monocyte/macrophage functions in naturally caprine arthritis encephalitis virus infection in dairy goats. [Vet Immunol Immunopathol. 188: 21-6.](#)

<b>Storage</b>	<p>This product is shipped at ambient temperature. Store at +4°C.</p> <p>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>
<b>Guarantee</b>	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Acknowledgements</b>	Cy® and CyDye® are registered trademarks of GE Healthcare
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10045 available at:  <a href="https://www.bio-rad-antibodies.com/SDS/MCA2804C">https://www.bio-rad-antibodies.com/SDS/MCA2804C</a>  10045</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

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

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

<b>North &amp; South America</b>	<p>Tel: +1 800 265 7376</p> <p>Fax: +1 919 878 3751</p> <p>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a></p>	<b>Worldwide</b>	<p>Tel: +44 (0)1865 852 700</p> <p>Fax: +44 (0)1865 852 739</p> <p>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a></p>	<b>Europe</b>	<p>Tel: +49 (0) 89 8090 95 21</p> <p>Fax: +49 (0) 89 8090 95 50</p> <p>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a></p>
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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)  
'M440728:250523'

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