Datasheet: MCA2804C

BATCH NUMBER 170919

Description:	MOUSE ANTI HUMAN CD14:RPE-Cy5
Specificity:	CD14
Format:	RPE-CY5
Product Type:	Monoclonal Antibody
Clone:	61D3
Isotype:	IgG1
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

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, Goat, Cat, Mink
N.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

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_3) Stabilizing agent (sucrose)
External Database Links	**UniProt:** P08571 Related reagents **Entrez Gene:** 929 CD14 Related reagents
RRID	AB_1100736
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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood.
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.
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	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
Acknowledgements	Cy® and CyDye® are registered trademarks of GE Healthcare
Health And Safety Information	Material Safety Datasheet documentation #10045 available at: https://www.bio-rad-antibodies.com/SDS/MCA2804C 10045
Regulatory	For research purposes only

Related Products

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M437727:250318'

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