Datasheet: MCA2804PECY5.5

BATCH NUMBER 151109

Description:	MOUSE ANTI HUMAN CD14:RPE-Cy5.5
Specificity:	CD14
Format:	RPE-CY5.5
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 - Cy5.5 (RPE-Cy5.5) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE-Cy5.5 488nm laser	496	695

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.1% Sodium Azide (NaN_3)
Sucrose

External Database Links	**UniProt:** P08571 Related reagents **Entrez Gene:** 929 CD14 Related reagents
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. 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. 2. Barat, C. *et al.* (2008) Extracellular ATP reduces HIV-1 transfer from immature dendritic cells to CD4+ T lymphocytes. Retrovirology. 5: 30. 3. Levy, O. *et al.* (2003) Critical role of the complement system in group B *streptococcus*-induced tumor necrosis factor alpha release. Infect Immun. 71 (11): 6344-53. 4. 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. 5. 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. 6. Eleftheriou D *et al.* (2012) Endothelial injury in childhood stroke with cerebral arteriopathy: a cross-sectional study. Neurology. 79 (21): 2089-96. 7. 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. 8. 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. 9. 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. 10. 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. 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. 12. 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.
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	6 months from date of despatch.
Acknowledgements	Cy® and CyDye® are registered trademarks of GE Healthcare
Health And Safety Information	Material Safety Datasheet documentation #10331 available at: https://www.bio-rad-antibodies.com/SDS/MCA2804PECY5.5 10331
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

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