

Datasheet: MCA2804C

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 (NaN₃)

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 10⁶ cells or 100ul whole blood.

References

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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.](#)
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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.](#)
13. 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.

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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 \(BUF070B\)](#)

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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

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