

Datasheet: MCA2804PECY5.5

BATCH NUMBER 156699

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 0.1% Sodium Azide (NaN₃)
Stabilisers Sucrose

External Database
Links

UniProt:

[P08571](#) [Related reagents](#)

Entrez Gene:

[929](#) CD14 [Related reagents](#)

RRID AB_1100739

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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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.](#)
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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.](#)
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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 Guaranteed until date of expiry. Please see product label.

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Health And Safety Information Material Safety Datasheet documentation #10331 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2804PECY5.5>
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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](https://www.bio-rad-antibodies.com/datasheets)
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