

Datasheet: MCA2746PE

Description:	MOUSE ANTI MOUSE CD14:RPE
Specificity:	CD14
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	biG57
Isotype:	IgG1
Quantity:	100 TESTS

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 product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 1.0ml distilled water						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
RPE 488nm laser	496	578					
Preparation	Purified IgG prepared by affinity chromatography on Protein G						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin						
Immunogen	Recombinant mouse CD14.						

**External Database
Links**

UniProt:

[P10810](#) [Related reagents](#)

Entrez Gene:

[12475](#) Cd14 [Related reagents](#)

RRID AB_2074282

Specificity

Mouse anti Mouse CD14 antibody, clone biG57 recognizes mouse CD14, a 55kD a glycoposphoinositol-linked cell surface protein that also exists in a soluble form. Expression of CD14 is restricted to the myeloid lineage and is predominantly expressed on peripheral blood monocytes, weakly expressed on granulocytes and absent on myeloid progenitors. The CD14 molecule acts as a pattern recognition receptor, which binds lipopolysaccharide (LPS) and other microbial products such as lipoteichoic acid, lipoproteins and peptidoglycan. Binding of LPS to CD14 mediates the innate immune response to LPS and requires the Toll-like receptor-4 (TLR4)/MD-2 complex for effective signalling.

Mouse anti Mouse CD14 antibody, clone biG57 does not inhibit the binding of CD14.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #20486 available at:
20486: <https://www.bio-rad-antibodies.com/uploads/MSDS/20486.pdf>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**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

From March 15, 2021, we will no longer supply printed datasheets with our products.
Look out for updates on how to access your digital version at bio-rad-antibodies.com

'M376063:210115'

Printed on 09 Feb 2021
