

Datasheet: MCA6014GA

Description:	MOUSE ANTI HUMAN CD68
Specificity:	CD68
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	Y1/82A
Isotype:	IgG2b
Quantity:	0.1 mg

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 (1)	▪			1/10 - 1/100

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.

(1) Results maybe enhanced using membrane permeabilisation. Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Phytohaemagglutinin stimulated peripheral blood mononuclear cells.
External Database Links	<p>UniProt: P34810 Related reagents</p> <p>Entrez Gene: 968 CD68 Related reagents</p>
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the murine NS1 myeloma.
Specificity	Mouse anti Human CD68 antibody, clone Y1/82A recognizes the human CD68 cell surface antigen, a ~110 kDa glycoprotein primarily expressed by macrophages and monocytes.
Flow Cytometry	Use 10 µl of the suggested working dilution to label 1x10 ⁶ cells in 100 µl
References	<ol style="list-style-type: none"> 1. Micklem, K. <i>et al.</i> (1989) A human macrophage-associated antigen (CD68) detected by six different monoclonal antibodies. Br J Haematol. 73 (1): 6-11. 2. Pulford, K.A. <i>et al.</i> (1990) Distribution of the CD68 macrophage/myeloid associated antigen. Int Immunol. 2 (10): 973-80. 3. Holness, C.L. & Simmons, D.L. (1993) Molecular cloning of CD68, a human macrophage marker related to lysosomal glycoproteins. Blood. 81 (6): 1607-13. 4. Mahida, Y.R. <i>et al.</i> (1997) Migration of human intestinal lamina propria lymphocytes, macrophages and eosinophils following the loss of surface epithelial cells. Clin Exp Immunol. 109 (2): 377-86.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6014GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

Recommended Useful Reagents

[LEUCOPERM \(BUF09\)](#)

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
'M404342:220822'

Printed on 20 Oct 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)