

# Datasheet: MCA6014PE BATCH NUMBER INN1705

Description:	MOUSE ANTI HUMAN CD68:RPE		
Specificity:	CD68		
Format:	RPE		
Product Type:	Monoclonal Antibody		
Clone:	Y1/82A		
lsotype:	lgG2b		
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 <u>www.bio-</u> rad-antibodies.com/protocols.						
		Yes No	Not Determined	Suggested Dilution			
	Flow Cytometry (1)	-		Neat			
	necessarily exclude its a guide only. It is reco system using appropri (1) <b>Membrane perme</b>	s use in such proced mmended that the us ate negative/positive <b>abilization is requir</b>	ser titrates the product f	g dilutions are given as for use in their own <b>. Bio-Rad</b>			
Target Species	Human						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 1.0 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.						
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				
	RPE 488nm laser	496	578				
	RPE 561nm laser	546	578				
Preparation	Purified IgG prepared supernatant	by affinity chromatoo	graphy on Protein A fron	n tissue culture			

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 5% Sucrose
Immunogen	Phytohaemagglutinin stimulated peripheral blood mononuclear cells.
External Database Links	UniProt:         P34810       Related reagents         Entrez Gene:         968       CD68         Related reagents
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the murine NS1 myeloma.
Specificity	<b>Mouse anti Human CD68 antibody, clone Y1/82A</b> recognizes the human CD68 cell surface antigen, a ~110 kDa glycoprotein primarily expressed by macrophages and monocytes.
Flow Cytometry	Use 10 $\mu$ l of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100 $\mu$ l. Membrane permeabilization is required for this application. Bio-Rad recommends the use of Leucoperm ( <u>BUF09</u> ) for this purpose
References	<ol> <li>Micklem, K. <i>et al.</i> (1989) A human macrophage-associated antigen (CD68) detected by six different monoclonal antibodies. <u>Br J Haematol. 73 (1): 6-11.</u></li> <li>Pulford, K.A. <i>et al.</i> (1990) Distribution of the CD68 macrophage/myeloid associated antigen. <u>Int Immunol. 2 (10): 973-80.</u></li> <li>Holness, C.L. &amp; Simmons, D.L. (1993) Molecular cloning of CD68, a human macrophage marker related to lysosomal glycoproteins. <u>Blood. 81 (6): 1607-13.</u></li> <li>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. <u>Clin Exp Immunol. 109 (2): 377-86.</u></li> </ol>
Storage	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA6014PE 20487
Regulatory	For research purposes only

## **Related Products**

### **Recommended Negative Controls**

MOUSE IgG2b NEGATIVE CONTROL:RPE (MCA691PE)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@b	io-rad.com	Email: antibody_sales_uk@bio	-rad.com	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 'M375630:210104'

#### Printed on 23 May 2025

© 2025 Bio-Rad Laboratories Inc | Legal | Imprint