

# Datasheet: MCA2375F BATCH NUMBER 155860

Description:	MOUSE ANTI HUMAN CD68:FITC		
Specificity:	CD68		
Other names:	MACROSIALIN		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	Ki-M7		
Isotype:	lgG1		
Quantity:	100 TESTS/2ml		

## **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-rad-antibodies.com/protocols</u>.

		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry (1)	-				
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin			•		
	ELISA					
	Immunoprecipitation			•		
	Western Blotting					
	<ul> <li>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.</li> <li>(1)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm<sup>™</sup> (Product Code <u>BUF09</u>) for this purpose.</li> </ul>					
Target Species	Human					
Species Cross Reactivity	Reacts with: African green monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or					

Product Form Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

further information.

personal communications from the originators. Please refer to references indicated for

Max Ex/Em	Fluorophore FITC	Excitation Max (nm) 490	Emission Max (nn 525	n)		
	ine	490	323			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline.					
Preservative Stabilisers	0.05% Sodium Azide 1% Bovine Serum Albumin					
Immunogen	Human lymph node tissue.					
External Database Links	Entrez Gene:	<u>d reagents</u>				
	<u>968</u> CD68 <u>Rela</u>	ted reagents				
RRID	AB_2074720					
Specificity	<b>Mouse anti Human CD68 antibody, clone Ki-M7</b> recognizes human CD68 an integral membrane glycoprotein of ~110 kDa also known as Macrosialin or Gp110. CD68 is predominantly expressed on the intracellular lysosomes of macrophages/monocytes, including Kupffer cells, microglia, histiocytes and osteoclasts, and is expressed to a lesser extent by dendritic cells and peripheral blood granulocytes. Elevated expression of CD68 has been demonstrated on CD34+ cells in various human malignancies, including Acute Myeloid Leukemia.					
	In immunohistochemistry, CD68 can be used to aid in the identification of blastic NK lymphomas, some B cell lymphomas, and to help diagnose disorders relating to macrophage abnormalities, including malignant histocytosis and Gaucher's disease.					
	Clone Ki-M7 has also	been reported as bei	ng suitable for use	in immunoprecipitation.		
Flow Cytometry	Use 20ul of the sugge	sted working dilution	to label 10 <sup>6</sup> cells in	100ul.		
References	six different monoclon 2. Karlsson, K.R. <i>et al</i> embryonic stem cells <u>Hematol. 36 (9): 1167</u> 3. Gottfried, E. <i>et al.</i> (2 <u>Immunol. 67: 453-63.</u> 4. Sakakibara, S. <i>et al</i>	al antibodies. <u>Br J Ha</u> . (2008) Homogeneou following coculture-fre <u>-75.</u> 2008) Expression of ( 2. (2009) Gene regula	tion and functional	macrophages from human M-CSF and IL-3. <u>Exp</u>		

	<ol> <li>Bendelja, K. <i>et al.</i> (2010) Decreased Toll-like receptor 8 exp synthesis in infants with acute RSV infection. <u>Respir Res. 11: 1</u></li> <li>Vergo, S. <i>et al.</i> (2011) Acid-sensing ion channel 1 is involve demyelination in multiple sclerosis and its animal model. <u>Brain</u></li> </ol>	<u>143.</u> d in both axonal injury and
Further Reading	1. Sadovnikova, E. <i>et al.</i> (2002) The CD68 protein as a potenti reactive CTL. <u>Leukemia. 16 (10): 2019-26.</u>	al target for leukaemia-
Storage	Store at 4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photos protected from light. Should this product contain a precipitate v microcentrifugation before use.	
Guarantee	Guaranteed until date of expiry. Please see product label.	
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2375F">https://www.bio-rad-antibodies.com/SDS/MCA2375F</a> 10041	
Regulatory	For research purposes only	

### **Related Products**

### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

#### **Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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@bi	o-rad.com	Email: antibody_sales_uk@bio	o-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 'M361867:200325'

#### Printed on 23 May 2025

© 2025 Bio-Rad Laboratories Inc | Legal | Imprint