

Datasheet: MCA5709PE

Description:	MOUSE ANTI HUMAN CD68:RPE
Specificity:	CD68
Other names:	MACROSIALIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	KP1
Isotype:	lgG1
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-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry (1)	•			Neat	
	nnique 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. (1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code <u>BUF09</u>) is recommended for this purpose.					
Target Species	Human					
Species Cross Reactivity	Reacts with: Primate, Rat 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 (RPE) - lyophilized					
Reconstitution	Reconstitute with 1ml 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 E	Excitation M	lax (nm)	Emission Max (nm)		

	RPE 488nm laser 496 578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 5% Sucrose
Immunogen	Subcellular fraction of human alveolar macrophages
External Database Links	UniProt: P34810 Related reagents Entrez Gene: 968 CD68 Related reagents
RRID	AB_11152591
Specificity	Mouse anti human CD68 antibody, clone KP1 recognizes the human CD68 cell surface antigen, a ~110 kDa glycoprotein primarily expressed by macrophages and monocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Masaki, T. <i>et al.</i> (2004) Activation of the extracellular-signal regulated protein kinase pathway in human glomerulopathies. J Am Soc Nephrol. 15 (7): 1835-43. Vroon, A. <i>et al.</i> (2007) Neuroinflammation in Parkinson's patients and MPTP-treated mice is not restricted to the nigrostriatal system: microgliosis and differential expression of interleukin-1 receptors in the olfactory bulb. Exp Gerontol. 42 (8): 762-71. Schwarz, F. <i>et al.</i> (2016) Human-specific derived alleles of CD33 and other genes protect against postreproductive cognitive decline. Proc Natl Acad Sci U S A. 113 (1): 74-9. Xiao, J. <i>et al.</i> (2016) Effects of ketanserin on experimental colitis in mice and macrophage function. Int J Mol Med. 37 (3): 659-68. Blanco, R.E. <i>et al.</i> (2019) Application of CNTF or FGF-2 increases the number of M2-like macrophages after optic nerve injury in adult <i>Rana pipiens.</i>. PLoS One. 14 (5): e0209733. Hu, M. <i>et al.</i> (2022) Implications of <i>Sm22α</i>-Cre expression in keratinocytes and unanticipated inflammatory skin lesion in a model of atherosclerosis. Am J Physiol Heart Circ Physiol. 323 (3): H528-H534. Robinson, H. <i>et al.</i> (2022) The effect of expressive writing on wound healing: Immunohistochemistry analysis of skin tissue two weeks after punch biopsy wounding. J Psychosom Res. 161: 110987. Ruggiero, A.D. <i>et al.</i> (2023) Long-term dasatinib plus quercetin effects on aging outcomes and inflammation in nonhuman primates: implications for senolytic clinical trial

Storage	This product is shipped at ambient temperature.				
	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. Should this product contain a precipitate we recommend micro-centrifugation before use.				
Guarantee	12 months from date of despatch				
Health And Safety	Material Safety Datasheet documentation #20487 available at:				
Information	https://www.bio-rad-antibodies.com/SDS/MCA5709PE				
	20487				
Regulatory	For research purposes only				

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Recommended Useful Reagents

LEUCOPERM (BUF09) 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@bio-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 'M441033:250523'

Printed on 23 May 2025

© 2025 Bio-Rad Laboratories Inc | Legal | Imprint