

# Datasheet: MCA2185PET

Description:	MOUSE ANTI HUMAN CD14:RPE
Specificity:	CD14
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MEM-18
Isotype:	lgG1
Quantity:	25 TESTS

# **Product Details**

RRID	AB_1100728					
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.					
	Flow Cytometry				Neat	
	Where this antibody h exclude its use in suc recommended that the negative/positive cont	as not been tested h procedures. Sugg e user titrates the a rols.	for use in gested wo ntibody fo	n a particular techn orking dilutions are or use in their own	ique this does not necessarily given as a guide only. It is system using appropriate	
Target Species	Human					
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Iyophilized					
Reconstitution	Reconstitute in 0.25 ml disilled water					
Max Ex/Em	Fluorophore RPE 488nm laser	Excitation Max (nn 496	n) Emis	sion Max (nm) 578		
Preparation	Purified IgG prepared by caprylic acid and ammonium sulfate precipitation.					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 5% Sucrose					
Immunogen	Crude protein prepare	ed by ammonium su	Ifate pre	cipitation of urine fr	om a proteinuria patient.	
External Database Links	UniProt: <u>P08571</u> <u>Relate</u>	ed reagents				

	Entrez Gene:
	929 CD14 Related reagents
Fusion Partners	Spleen cells from mice immunised BALB/c mice were fused with cells from the NS1-Ag4/1 mouse myeloma line.
Specificity	<b>Mouse anti Human CD14 antibody, clone MEM-18</b> recognizes human CD14, also known as Myeloid cell-specific leucine-rich glycoprotein. CD14 is a 375 amino acid ~55 kDa GPI-anchored cell membrane protein found predominantly on monocytes and macrophages, it is less strongly expressed on granulocytes, and is absent from stem cells and myeloid cells of very early differentiation states. In immunohistology CD14 present on Langerhans cells, follicular dendritic cells, histocytes and high endothelial venules. In ELISA clone MEM-18 recognizes the soluble form CD14 and has been used successfully in the development of a sensitive ELISA as a capture reagent in conjunction with biotinylated Mouse anti CD14 antibody, clone UCHM1 as a detection reagent
	Mouse anti Human CD14 antibody, clone MEM-18 is reported to block the binding of bacterial lipopolysaccharide (LPS) to monocytes ( <u>Prager <i>et al.</i> 2001</u> ) and has been used successfully for the detection of soluble CD14 in saliva samples ( <u>Bergandi <i>et al.</i> 2007</u> ).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol> <li>Plötz, S.G. <i>et al.</i> (2001) The interaction of human peripheral blood eosinophils with bacterial lipopolysaccharide is CD14 dependent. <u>Blood. 97 (1): 235-41.</u></li> <li>Prager, E. <i>et al.</i> (2001) Induction of hyporesponsiveness and impaired T lymphocyte activation by the CD31 receptor:ligand pathway in T cells. <u>J Immunol. 166 (4): 2364-71.</u></li> <li>Thacker, E. <i>et al.</i> (2001) Summary of workshop findings for porcine myelomonocytic markers. <u>Vet Immunol Immunopathol. 80 (1-2): 93-109.</u></li> <li>Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular mesenchymal stem cells. <u>PLoS One. 7: e35577.</u></li> <li>Angel, C.E. <i>et al.</i> (2006) Cutting edge: CD1a+ antigen-presenting cells in human dermis respond rapidly to CCR7 ligands. <u>J Immunol. 176: 5730-4.</u></li> <li>Shao, D.D. <i>et al.</i> (2008) Pivotal Advance: Th-1 cytokines inhibit, and Th-2 cytokines promote fibrocyte differentiation. <u>J Leukoc Biol. 83: 1323-33.</u></li> <li>Silk, K.M. <i>et al.</i> (2007) A novel antibody-dependent cellular cytotoxicity mechanism involved in defense against malaria requires costimulation of monocytes FcgammaRII and FcgammaRIII. <u>J Immunol. 178: 3099-106.</u></li> <li>Kang, S.D. <i>et al.</i> (2013) Isolation of functional human endothelial cells from small volumes of umbilical cord blood. <u>Ann Biomed Eng. 41 (10): 2181-92.</u></li> <li>Grognuz, A. <i>et al.</i> (2016) Human Fetal Progenitor Tenocytes for Regenerative Medicine. <u>Cell Transplant. 25 (3): 463-79.</u></li> <li>Chen, R. <i>et al.</i> (2017) <i>In Vitro</i> Response of Human Peripheral Blood Mononuclear Cells (PBMC) to Collagen Films Treated with Cold Plasma <u>Polymers. 9 (7): 254.</u></li> </ol>
Storage	Prior to reconstitution store at +4°C. Following 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 microcentrifugation before use.

Page 2 of 3

Guarantee	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</u>
Regulatory	For research purposes only

### **Related Products**

#### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

### **Recommended Useful Reagents**

#### HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide
America	Fax: +1 919 878 3751	
	Email: antibody sales us@bio-rad	.com

Tel: +44 (0)1865 852 700 **Europe** Fax: +44 (0)1865 852 739 Email: antibody\_sales\_uk@bio-rad.com

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody\_sales\_de@bio-rad.com

'M352852:190408'

#### Printed on 08 Apr 2019

© 2019 Bio-Rad Laboratories Inc | Legal | Imprint