

# Datasheet: MCA2185F BATCH NUMBER 0413

Description:	MOUSE ANTI HUMAN CD14:FITC
Specificity:	CD14
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MEM-18
lsotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat - 1/10
	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.				g dilutions are given as
Target Species	Human				
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid				
Max Ex/Em	Fluorophore	Excitation M	lax (nm)	Emission Max (nm)	
	FITC	490		525	
Preparation	Purified IgG prepared by affinity chromatography on Protein A				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin				
Approx. Protein Concentrations	IgG concentration 0.1mg/ml				

Immunogen	Crude protein prepared by ammonium sulfate precipitation of urine from a proteinuria patient.			
External Database Links	UniProt:         P08571       Related reagents         Entrez Gene:         929       CD14       Related reagents			
RRID	AB_323759			
Fusion Partners	Spleen cells from mice immunised BALB/c mice were fused with cells from the NS1-Ag4/1 mouse myeloma line.			
Specificity	<ul> <li>Mouse anti Human CD14 antibody, clone MEM-18 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 develpopment of a sensitive ELISA as a capture reagent in conjunction with biotinylated Mouse anti CD14 antibody, clone UCHM1 as a detection reagent</li> <li>Mouse anti Human CD14 antibody, clone MEM-18 is reported to block the binding of bacterial lipopolysaccharide (LPS) to monocytes (Prager <i>et al.</i> 2001) and has been used successfully for the detection of soluble CD14 in saliva samples (Bergandi <i>et al.</i> 2007).</li> </ul>			
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul or 100ul whole blood			
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> (2012) Rapamycin conditioning of dendritic cells differentiated from human ES cells promotes a tolerogenic phenotype. <u>J Biomed Biotechnol. 2012: 172420.</u></li> <li>Jafarshad, A. <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> </ol>			

	<ol> <li>Kang, S.D. <i>et al.</i> (2013) Isolation of functional human endothelial 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 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 BI Cells (PBMC) to Collagen Films Treated with Cold Plasma. <u>Polymer</u></li> </ol>	<u>.</u> Regenerative ood Mononuclear		
Storage	Store at +4°C or at -20°C if preferred.			
	This product should be stored undiluted.			
	Storage in frost-free freezers is not recommended. This product is pl should be protected from light.	hotosensitive and		
	Avoid repeated freezing and thawing as this may denature the antibo product contain a precipitate we recommend microcentrifugation bef			
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2185F 10041			
Regulatory	For research purposes only			

### **Related Products**

#### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

### **Recommended Useful Reagents**

HUMAN SEROBLOCK (B	UF070A)
HUMAN SEROBLOCK (B	<u>UF070B)</u>

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 'M366318:200529'

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