

Datasheet: MCA2185F BATCH NUMBER 166304

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-</u>					
	rad-antibodies.com/pro		No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			Neat - 1/10	
	Where this product ha necessarily exclude its a guide only. It is recon system using appropria	s use in such pro mmended that t	ocedur he use	es. Suggested working r titrates the product f	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 Max	(nm)	Emission Max (nm)		
	FITC	490		525		
Preparation	Purified IgG prepared supernatant	by affinity chron	natogra	aphy on Protein A fron	n tissue culture	
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 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	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 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).
Flow Cytometry	Use 10 μ l of the suggested working dilution to label 10 ⁶ cells in 100 μ l or 100 μ l whole blood
References	 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> 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> 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> 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> 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> 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> Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular mesenchymal stem cells. <u>PLoS One. 7: e35577.</u>

	 9. 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> 10. Grognuz, A. <i>et al.</i> (2016) Human Fetal Progenitor Tenocytes for Regenerative 		
	Medicine. <u>Cell Transplant. 25 (3): 463-79.</u>		
	11. Chen, R. et al. (2017) In Vitro Response of Human Periphe	eral Blood Mononuclear	
	Cells (PBMC) to Collagen Films Treated with Cold Plasma. Po	lymers (Basel). 9 (7): 254	
Storage	This product is shipped at ambient temperature. It is recomme -20°C on receipt. When thawed, aliquot the sample as needed short term use (up to 4 weeks) and store the remaining aliquot	l. Keep aliquots at 2-8°C for	
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended. This product is photos protected from light.		
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 (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-rac	d.com	Email: antibody_sales_uk@bio-rac	d.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 'M413209:221121'

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