Datasheet: MCA2185 BATCH NUMBER 161244

Description:	MOUSE ANTI HUMAN CD14
Specificity:	CD14
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-18
lsotype:	lgG1
Quantity:	0.2 mg

Product Details

Applications	This product has been re	ported to	work in th	e following application	s This information is
rippiloutione	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		ecommen	dations, please visit <u>w</u>	WW.DIO-
	rad-antibodies.com/proto				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	•			
	Immunohistology - Frozen				
	Immunohistology - Paraffin				
	ELISA	-			
	Immunoprecipitation	•			
	Western Blotting (1)	-			
	Where this antibody has	not been	tested for	use in a particular tec	hnique this does not
	necessarily exclude its us	se in such	n procedui	es. Suggested workin	g dilutions are given as
	a guide only. It is recomn			•••	
	•			•	
	system using appropriate negative/positive controls. (1) MEM-18 recognizes CD14 under non-reducing conditions				
	(1) MEM-16 recognizes	CD14 un	der non-r	educing conditions	
Target Species	Human				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by caprylic acid and ammonium sulphate precipitation				
Buffer Solution	Phosphate buffered salin	е			
Preservative Stabilisers	<0.1% Sodium Azide (Na	aN ₃)			
Approx. Protein	IgG concentration 1.0 mg	g/ml			

Concentrations

Immunogen	Crude protein prepared by ammonium sulfate precipitation of urine from a proteinuria patient.
External Database Links	UniProt: <u>P08571</u> <u>Related reagents</u> Entrez Gene: <u>929</u> CD14 <u>Related reagents</u>
RRID	AB_324230
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 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 (Prager <i>et al.</i> 2001) and has been used
Flow Cytometry	successfully for the detection of soluble CD14 in saliva samples (<u>Bergandi <i>et al.</i> 2007</u>). Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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> Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular mesenchymal stem cells. <u>PLoS One. 7: e35577.</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> 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> Jafarshad, A. <i>et al.</i> (2007) A novel antibody-dependent cellular cytotoxicity mechanism

	involved in defense against malaria requires costimulation of m	onocytes FcgammaRII and		
	FcgammaRIII. <u>J Immunol. 178: 3099-106.</u>			
	9. Kang, S.D. et al. (2013) Isolation of functional human endoth	elial cells from small		
	volumes of umbilical cord blood. Ann Biomed Eng. 41 (10): 218	<u>31-92.</u>		
	10. Grognuz, A. et al. (2016) Human Fetal Progenitor Tenocyte	s for Regenerative		
	11. Chen, R. et al. (2017) In Vitro Response of Human Periphe	ral Blood Mononuclear		
	Cells (PBMC) to Collagen Films Treated with Cold Plasma. Pol	<u>ymers (Basel). 9 (7): 254</u>		
Storage	orageThis product is shipped at ambient temperature. It is recommended to aliquot and sto-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°short term use (up to 4 weeks) and store the remaining aliquots at -20°C.			
	Avoid repeated freezing and thawing as this may denature the	antibody. Storage in		
	frost-free freezers is not recommended.	antibody. Otorage in		
Guarantee	12 months from date of despatch			
Health And Safety	Material Safety Datasheet documentation #10040 available at:			
Information	https://www.bio-rad-antibodies.com/SDS/MCA2185			
	10040			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,		
	DyLight®650, DyLight®680, DyLight®800,		
	<u>FITC, HRP</u>		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
Goat Anti Mouse IgG (STAR77)	HRP		
Recommended Negative Controls			

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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-ra	id.com	Email: antibody_sales_uk@bio-ra	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 'M389392:210806'

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