

Datasheet: MCA2185

BATCH NUMBER 174220

Description:	MOUSE ANTI HUMAN CD14
Specificity:	CD14
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-18
Isotype:	IgG1
Quantity:	0.2 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting (1)	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1) **MEM-18 recognizes CD14 under non-reducing conditions**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% sodium azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Crude protein prepared by ammonium sulfate precipitation of urine from a proteinuria patient.
External Database Links	<p>UniProt: P08571 Related reagents</p> <p>Entrez Gene: 929 CD14 Related reagents</p>
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	<p>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</p> <p>Mouse anti Human CD14 antibody, clone MEM-18 is reported to block the binding of bacterial lipopolysaccharide (LPS) to monocytes (Prager et al. 2001) and has been used successfully for the detection of soluble CD14 in saliva samples (Bergandi et al. 2007).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> Plötz, S.G. <i>et al.</i> (2001) The interaction of human peripheral blood eosinophils with bacterial lipopolysaccharide is CD14 dependent. Blood. 97 (1): 235-41. Prager, E. <i>et al.</i> (2001) Induction of hyporesponsiveness and impaired T lymphocyte activation by the CD31 receptor:ligand pathway in T cells. J Immunol. 166 (4): 2364-71. Thacker, E. <i>et al.</i> (2001) Summary of workshop findings for porcine myelomonocytic markers. Vet Immunol Immunopathol. 80 (1-2): 93-109. Angel, C.E. <i>et al.</i> (2006) Cutting edge: CD1a+ antigen-presenting cells in human dermis respond rapidly to CCR7 ligands. J Immunol. 176: 5730-4. Jafarshad, A. <i>et al.</i> (2007) A novel antibody-dependent cellular cytotoxicity mechanism involved in defense against malaria requires costimulation of monocytes FcγRII and FcγRIII. J Immunol. 178: 3099-106. Shao, D.D. <i>et al.</i> (2008) Pivotal Advance: Th-1 cytokines inhibit, and Th-2 cytokines promote fibrocyte differentiation. J Leukoc Biol. 83: 1323-33. Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular

mesenchymal stem cells. [PLoS One. 7: e35577.](#)

8. Silk, K.M. *et al.* (2012) Rapamycin conditioning of dendritic cells differentiated from human ES cells promotes a tolerogenic phenotype. [J Biomed Biotechnol. 2012: 172420.](#)

9. Kang, S.D. *et al.* (2013) Isolation of functional human endothelial cells from small volumes of umbilical cord blood. [Ann Biomed Eng. 41 \(10\): 2181-92.](#)

10. Grognez, A. *et al.* (2016) Human Fetal Progenitor Tenocytes for Regenerative Medicine. [Cell Transplant. 25 \(3\): 463-79.](#)

11. Chen, R. *et al.* (2017) *In Vitro* Response of Human Peripheral Blood Mononuclear Cells (PBMC) to Collagen Films Treated with Cold Plasma. [Polymers \(Basel\). 9 \(7\): 254](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for 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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2185>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#), [DyLight®650](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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