

# Datasheet: MCA1568B BATCH NUMBER 162180

Description:	scription: MOUSE ANTI HUMAN CD14:Biotir		
Specificity:	CD14		
Format:	Biotin		
Product Type:	Monoclonal Antibody		
Clone:	TÜK4		
Isotype:	lgG2a		
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/protocols.					
		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.					
Target Species	Human					
Species Cross Reactivity	Reacts with: Dog, Goat, Cat, Rabbit, Mink, Bovine, Pig, Sheep, Cynomolgus monkey, Llama <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.					
Product Form	Purified IgG conjugated to Biotin - liquid					
Preparation	Purified IgG prepared by affinity chromatography on Protein A					
Buffer Solution	Phosphate buffered salir	ne				
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin					

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
External Database Links	UniProt:		
	P08571 Related reagents		
	Entrez Gene:		
	929 CD14 Related reagents		
RRID	AB_2259976		
Specificity	<b>Mouse anti human CD14 antibody, clone TÜK4</b> recognizes the human CD14 cell surface antigen. CD14 is a ~55 kDa glycoprotein that contains multiple leucine-rich repeats. It is anchored to the cell membrane via a glycosylphosphatidylinositol (GPI) linkage ( <u>Simmons <i>et al.</i> 1989</u> ), a soluble form of CD14 also exists ( <u>Bazil <i>et al.</i> 1986</u> ).		
	CD14 is strongly expressed on the surface of monocytes and macrophages but has also been shown to be expressed on the surface of non-myeloid cells ( <u>Jersmann 2005</u> ). CD14 functions as a pattern recognition receptor ( <u>Pugin <i>et al.</i> 1994</u> , <u>Dziarski <i>et al.</i> 1998</u> ) in innate immunity for a variety of ligands, in particular for the LPS (endotoxin) of Gram-negative bacteria.		
	Mouse anti human CD14 antibody, clone TÜK4 has been shown to block SDF-induced chemotaxis of U937 cells in a dose –dependent manner ( <u>Yang <i>et al.</i> 2003</u> ). Use of the <u>anti-human CD14 antibody, Low Endotoxin format</u> is recommended for this purpose.		
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood.		
References	<ol> <li>Weiss, D.J. (2001) Evaluation of proliferative disorders in canine bone marrow by use of flow cytometric scatter plots and monoclonal antibodies. <u>Vet Pathol. 38: 512-8.</u></li> <li>Gupta, V.K. <i>et al.</i> (1996) Identification of the sheep homologue of the monocyte cell</li> </ol>		

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Further Reading	<ol> <li>Simmons, D. L. <i>et al.</i> (1989) Monocyte antigen CD14 is a phospholipid anchored membrane protein. <u>Blood. 73:284-9.</u></li> <li>Bazil, V. <i>et al.</i> (1986) Biochemical characterization of a soluble form of the 53-kDa monocyte surface antigen. <u>Eur J Immunol. 16:1583-9.</u></li> <li>Jersmann, H.P. (2005) Time to abandon dogma: CD14 is expressed by non-myeloid lineage cells. <u>Immunol Cell Biol. 83:462-7.</u></li> </ol>

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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 #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1568B 10041
Regulatory	For research purposes only

## Related Products

### **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-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 'M383062:210513'

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