

Datasheet: MCA1568PB

BATCH NUMBER 1708

Description: MOUSE ANTI HUMAN CD14:Pac Specificity: CD14 Format: Pacific Blue®	
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Format: Pacific Blue®	
Product Type: Monoclonal Antibody	
Clone: TÜK4	
Isotype: IgG2a	
Quantity: 100 TESTS/1ml	

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	•			Neat - 1/5

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					
	reactivity is derive	activity and working conditied from testing within our land and the originate of the control of	aboratories, peer-reviewe	ed publications of		
Product Form	Purified IgG conjugated to Pacific Blue® - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	Pacific Blue®	410	455			
Preparation	Purified IgG prep	ared by affinity chromatog	aphy on Protein A from t	issue culture		

Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin				
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml				
External Database Links	UniProt: P08571 Related reagents				
	Entrez Gene: 929 CD14 Related reagents				
RRID	AB_566518				
Specificity	Mouse anti human CD14 antibody, clone TÜK4 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 (Simmons et al. 1989), a soluble form of CD14 also exists (Bazil et al. 1986). 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 (Jersmann 2005). CD1 functions as a pattern recognition receptor (Pugin et al. 1994, Dziarski et al. 1998) 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 et al. 2003</u>). Use of the <u>anti-human CD14 antibody, Low Endotoxin format</u> is recommended for this purpose.				
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood.				
References	1. 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> 2. Gupta, V.K. <i>et al.</i> (1996) Identification of the sheep homologue of the monocyte cell				

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Further Reading

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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 photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

https://www.bio-rad-antibodies.com/SDS/MCA1568PB

10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:Pacific Blue® (MCA929PB)

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