

Datasheet: MCA1568P750

BATCH NUMBER 1113

Description:	MOUSE ANTI HUMAN CD14:RPE-Alexa Fluor® 750
Specificity:	CD14
Format:	RPE-ALEXA FLUOR® 750
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 - 1/10

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, Goa	at, Cat, Rabbit, Mink,	Bovine, Pig, Sheep, (Cynomolgus monkey,
	N.B. Antibody reactivi reactivity is derived from personal communication.	om testing within our l	aboratories, peer-rev	iewed publications or
Product Form	Purified IgG conjugate	ed to R. Phycoerythrin	ı (RPE) - Alexa Fluor	® 750 - lyophilized
Reconstitution	Reconstitute with 1.0	ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE-Alexa Fluor®750 488nm laser	496	779	
	RPE-Alexa Fluor®750 561nm laser	546	779	

Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin 5% Sucrose
External Database Links	UniProt: P08571 Related reagents Entrez Gene:
	929 CD14 Related reagents
RRID	AB_566520
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 (<u>Jersmann 2005</u>). CD14 functions as a pattern recognition receptor (<u>Pugin et al. 1994</u> , <u>Dziarski et al. 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 et al. 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 ⁶ cells or 100ul whole blood.
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retrospective study. Vet Comp Oncol. 14 (4): 409-16.

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Further Reading

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Storage

Store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1568P750

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Recommended Useful Reagents

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