

Datasheet: MCA1568SBB675

# **BATCH NUMBER 100006896**

Description:	MOUSE ANTI HUMAN CD14:StarBright Blue 675
Specificity:	CD14
Format:	StarBright Blue 675
<b>Product Type:</b>	Monoclonal Antibody
Clone:	TÜK4
Isotype:	IgG2a
Quantity:	100 TESTS/0.5ml

# **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

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.

Target Species	Human			
Species Cross Reactivity	Llama		Bovine, Pig, Sheep, Cynomolgus monk ons may vary between species. Cross	ey,
	•	J	aboratories, peer-reviewed publications ors. Please refer to references indicated	
Product Form	Purified IgG conjugated to StarBright Blue 675 - liquid			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	StarBright Blue 675	476	675	
Preparation	Purified IgG prepare supernatant	ed by affinity chromatog	raphy on Protein A from tissue culture	

**Buffer Solution** 

Phosphate buffered saline

# Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>) 1% Bovine Serum Albumin

0.1% Pluronic F680.1% PEG 33500.05% Tween 20

# External Database Links

#### **UniProt:**

P08571 Related reagents

#### **Entrez Gene:**

929 CD14 Related reagents

### **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 in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

#### References

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## **Further Reading**

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Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1568SBB675">https://www.bio-rad-antibodies.com/SDS/MCA1568SBB675</a> 20471
Regulatory	For research purposes only

# **Related Products**

# **Recommended Useful Reagents**

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Europe

Tel: +49 (0) 89 8090 95 21

Faraily antibactor and a second and

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

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