

Datasheet: MCA1568SBV570

# **BATCH NUMBER 100005111**

Description:	MOUSE ANTI HUMAN CD14:StarBright Violet 570		
Specificity:	CD14		
Format:	StarBright Violet 570		
Product Type:	Monoclonal Antibody		
Clone:	TÜK4		
Isotype:	lgG2a		
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	Reacts with: Dog, Goat, Cat, Rabbit, Mink, Bovine, Pig, Sheep, Cynomolgus monkey, Llama						
	reactivity is derived f	rom testing within our la	ons may vary between specie aboratories, peer-reviewed pu ors. Please refer to references	blications o			
Product Form	Purified IgG conjugated to StarBright Violet 570 - liquid						
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				
	StarBright Violet 570	402	570				
Preparation	Purified IgG prepared	d by affinity chromatog	raphy on Protein A from tissue	e 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.
	This product should be stored diffillated.
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	Material Safety Datasheet documentation #20471 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA1568SBV570
	20471
Regulatory	For research purposes only

# **Related Products**

# **Recommended Useful Reagents**

**HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)** 

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