

Datasheet: MCA1568SBV670

# **BATCH NUMBER 100005016**

Description:	MOUSE ANTI HUMAN CD14:StarBright Violet 670
Specificity:	CD14
Format:	StarBright Violet 670
Product Type:	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.

Human				
Reacts with: Dog, Go Llama	oat, Cat, Rabbit, Mink,	Bovine, Pig, Sheep, C	ynomolgus monkey,	
reactivity is derived fi	rom testing within our la	aboratories, peer-revie	ewed publications or	
Purified IgG conjugated to StarBright Violet 670 - liquid				
Fluorophore	Excitation Max (nm)	Emission Max (nm)		
StarBright Violet 670	400	667		
Purified IgG prepared	d by affinity chromatog	raphy on Protein A fro	m tissue culture	
	Reacts with: Dog, Go Llama  N.B. Antibody reactive reactivity is derived for personal communicate further information.  Purified IgG conjugate  Fluorophore  StarBright Violet 670	Reacts with: Dog, Goat, Cat, Rabbit, Mink, Llama  N.B. Antibody reactivity and working condition reactivity is derived from testing within our leader personal communications from the originate further information.  Purified IgG conjugated to StarBright Violet  Fluorophore Excitation Max (nm)  StarBright Violet 670 400	Reacts with: Dog, Goat, Cat, Rabbit, Mink, Bovine, Pig, Sheep, C Llama  N.B. Antibody reactivity and working conditions may vary betwee reactivity is derived from testing within our laboratories, peer-review personal communications from the originators. Please refer to refurther information.  Purified IgG conjugated to StarBright Violet 670 - liquid  Fluorophore  Excitation Max (nm) Emission Max (nm)	

**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/MCA1568SBV670">https://www.bio-rad-antibodies.com/SDS/MCA1568SBV670</a> 20471
Regulatory	For research purposes only

# Related Products

# **Recommended Useful Reagents**

**HUMAN SEROBLOCK (BUF070A)** 

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