

Datasheet: MCA1568SBY720

BATCH NUMBER 100007356

Description:	MOUSE ANTI HUMAN CD14:StarBright Yellow 720			
Specificity:	CD14			
Format:	StarBright Yellow 720			
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 www.bio-rad-antibodies.com/protocols.

	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, Go Llama	oat, Cat, Rabbit, Mink,	Bovine, Pig, Sheep, C	ynomolgus monke			
	reactivity is derived fr	ity and working condition testing within our lations from the originate	aboratories, peer-revie	ewed publications			
Product Form	Purified IgG conjugated to StarBright Yellow 720 - liquid						
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				
	StarBright Yellow 720	548	719				
Preparation	Purified IgG prepared	d by affinity chromatog	raphy on Protein A fro	m tissue culture			

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃) 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 5μ l of the suggested working dilution to label 10^6 cells in 100μ l. 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:

https://www.bio-rad-antibodies.com/SDS/MCA1568SBY720

20471

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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