

Datasheet: MCA2678SBB700

BATCH NUMBER 100008103

Description:	MOUSE ANTI BOVINE CD14:StarBright Blue 700
Specificity:	CD14
Format:	StarBright Blue 700
Product Type:	Monoclonal Antibody
Clone:	CC-G33
Isotype:	lgG1
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	Bovine					
Species Cross	Reacts with: Sheep,	Human, Water Buffalo				
Reactivity	N.B. Antibody reacti	vity and working conditi	ions may vary betw	een species. Cross		
	•	from testing within our l	•	•		
	•	ations from the originato	ors. Please refer to	references indicated for		
	further information.					
Product Form	Purified IgG conjugated to StarBright Blue 700 - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nn	n)		
	StarBright Blue 700	473	703			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture					
	supernatant					

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)1% Bovine Serum Albumin

0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20

Immunogen

Partially purified polypeptides isolated from bovine leucocyte cell surface membrane.

External Database Links

UniProt:

Q95122 Related reagents

Entrez Gene:

281048 CD14 Related reagents

Fusion Partners

Spleen cells from immunized Balb/c mice were fused with cells of the NS1 myeloma cell line.

Specificity

Mouse anti Bovine CD14, clone CC-G33 recognizes bovine CD14.

CD14 is a GPI-anchored membrane glycoprotein and monocyte/macrophage differentiation antigen, belonging to the lipopolysaccharide receptor family, also expressed weakly on microglia and Langerhans cells. CD14 acts as a receptor for the potent bacterial endotoxin, lipopolysaccharide (LPS), facilitated by LPS-binding protein (LBP). The binding of LPS to CD14 results in cell activation and the release of cytokines and the inflammatory response, and has been shown to upregulate the cell surface expression of adhesion molecules.

Mouse anti Bovine CD14 clone CC-G33 cross-reacts with human CD14 expressed on transfected COS-7 cells (<u>Berthon & Hopkins 1996</u>), ovine CD14 (<u>Sopp et al. 1996</u>) and Water buffalo (*Bubalus bubalis*) CD14, (<u>Mirielli et al. 2013</u>).

Flow Cytometry

Use 5μ I of the suggested working dilution to label 10^6 cells in 100μ I. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

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Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted.
12 months from date of despatch
This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Material Safety Datasheet documentation #20471 available at:
https://www.bio-rad-antibodies.com/SDS/MCA2678SBB700 20471
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M421941:230815'

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