

Datasheet: MCA2678SBB700

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 Reactivity	N.B. Antibody reactivity is derived fr	J	aboratories, peer-re	een species. Cross viewed publications or references indicated for		
Product Form	Purified IgG conjugated to StarBright Blue 700 - liquid					
Max Ex/Em	Fluorophore StarBright Blue 700	Excitation Max (nm) 473	Emission Max (nm)		
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein A t	from tissue culture		
Buffer Solution	Phosphate buffered s	saline				

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 5μl of the suggested working dilution to label 10⁶ cells in 100μl. 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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