

Datasheet: MCA2678PE

### **BATCH NUMBER 152539**

Description:	MOUSE ANTI BOVINE CD14:RPE
Specificity:	CD14
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CC-G33
Isotype:	lgG1
Quantity:	100 TESTS

## **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.

or for

Target Species	Bovine			
Species Cross	Reacts with: Sheep	, Human, Water Buffalo		
Reactivity	reactivity is derived	ivity and working conditi from testing within our la ations from the originate	aboratories, peer-revi	ewed publications
Product Form	Purified IgG conjuga	ated to R. Phycoerythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1.	0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	
	RPE 561nm laser	546	578	

Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN <sub>3</sub> )
Stabilisers	1% Bovine Serum Albumin
	5% Sucrose
	070 GdGlGGG
Immunogen	Partially purified polypeptides isolated from bovine leucocyte cell surface membrane.
External Database	
Links	UniProt:
	Q95122 Related reagents
	Entrez Gene:
	281048 CD14 Related reagents
	201040 CD14 INclated reagents
Fusion Partners	Spleen cells from immunised 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 (Berthon & Hopkins 1996), ovine CD14 (Sopp et al. 1996) and Water buffalo (Bubalus bubalis) CD14, (Mirielli et al. 2013).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
References	<ol> <li>Villarreal-Ramos, B. et al. (2006) Influence of the nature of the antigen on the boosting of responses to mycobacteria in M. bovis-BCG vaccinated cattle. <u>Vaccine. 24 (47-48)</u>: 6850-8.</li> <li>Pirson, C. et al. (2012) Differential effects of Mycobacterium bovis - derived polar and apolar lipid fractions on bovine innate immune cells. <u>Vet Res. 43</u>: 54.</li> </ol>
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Storage	Store at +4°C. DO NOT FREEZE.
	This product should be stored undiluted. Should this product contain a precipitate we
	recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #20487 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA2678PE
	20487
Regulatory	For research purposes only

# **Related Products**

## **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M375523:210104'

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