

Datasheet: MCA5918PE

Description:	MOUSE ANTI BOVINE CD32:RPE
Specificity:	CD32
Other names:	FcRII
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CCG36
Isotype:	IgG1
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 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	Reacts with: Sheep N.B. Antibody reactivity and working conditions may vary between species.								
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized								
Reconstitution	Reconstitute with 1.0 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.								
Max Ex/Em	<table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>RPE 488nm laser</td><td>496</td><td>578</td></tr></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
RPE 488nm laser	496	578							
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant								
Buffer Solution	Phosphate buffered saline								
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 5% Sucrose								
Immunogen	Bovine FcγRII-transfected COS7 cells.								

External Database Links	UniProt: Q28110 Related reagents Entrez Gene: 282229 FCGR2 Related reagents
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NS-1myeloma cell line.
Specificity	Mouse anti Bovine CD32 antibody, clone CCG36 recognizes the bovine homologue of human CD32, one of a group of Fc receptors belonging to the immunoglobulin superfamily and involved in phagocytosis of opsonized microbes. Bovine CD32 is a single pass type 1 membrane protein of approximately 32kDa, expressed on the cell surface of most cells including B-lymphocytes, monocytes, neutrophils and afferent veiled lymph dendritic cells Chattha, K. et al. 2010. It has been shown that expression of bovine CD32 is higher on macrophages than on neutrophils. CD32 can function in an inhibitory capacity to antibody production and is the low affinity Fc receptor for IgG (FcRII), binding to the Fc region of immunoglobulin gamma Chattha et al. 2009. Mouse anti Bovine CD32, clone CCG36 is one of a number of anti bovine CD32 reagents available from Bio-Rad, clone CCG36 is of interest in that it also recognizes ovine CD32 while clone CCG39 recognizes only bovine CD32.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	1. Chattha, K.S. <i>et al.</i> (2009) Age related variation in expression of CD21 and CD32 on bovine lymphocytes: a cross-sectional study. Vet Immunol Immunopathol. 130 (1-2): 70-8. 2. Chattha, K.S. <i>et al.</i> (2010) Variation in expression of membrane IgM, CD21 (CR2) and CD32 (Fcgamma RIIB) on bovine lymphocytes with age: a longitudinal study. Dev Comp Immunol. 34 (5): 510-7. 3. Chattha, K.S. <i>et al.</i> (2010) Expression of complement receptor 2 (CD21), membrane IgM and the inhibitory receptor CD32 (FcgammaRIIb) in the lymphoid tissues of neonatal calves. Vet Immunol Immunopathol. 137 (1-2): 99-108. 4. Chattha, K.S. <i>et al.</i> (2010) Immunohistochemical investigation of cells expressing CD21, membrane IgM, CD32 and a follicular dendritic cell marker in the lymphoid tissues of neonatal calves. Vet Immunol Immunopathol. 137 (3-4): 284-90. 5. Werling, D. <i>et al.</i> (1998) Analysis of the phenotype and phagocytic activity of monocytes/macrophages from cattle infected with the bovine leukaemia virus. Vet Immunol Immunopathol. 62 (3): 185-95.
Storage	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.
Shelf Life	18 months from date of reconstitution
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[MOUSE ANTI BOVINE CD32:FITC \(MCA5919F\)](#)

[MOUSE ANTI BOVINE CD32 \(MCA5919GA\)](#)

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