

## Datasheet: MCA5918F

<b>Description:</b>	MOUSE ANTI BOVINE CD32:FITC
<b>Specificity:</b>	CD32
<b>Other names:</b>	FcRII
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CCG36
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/10
Immunofluorescence			■	

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.

<b>Target Species</b>	Bovine								
<b>Species Cross Reactivity</b>	Reacts with: Sheep <b>N.B.</b> Antibody reactivity and working conditions may vary between species.								
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid								
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
FITC	490	525							
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant								
<b>Buffer Solution</b>	Phosphate buffered saline								
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )								
<b>Stabilisers</b>	1% Bovine Serum Albumin								
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml								
<b>Immunogen</b>	Bovine FcγRII-transfected COS7 cells.								

**External Database  
Links**

**UniProt:**

[Q28110](#)   [Related reagents](#)

**Entrez Gene:**

[282229](#)   FCGR2   [Related reagents](#)

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**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the NS-1myeloma cell line.

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**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.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul

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**References**

1. Chattha, K.S. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

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

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

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