Datasheet: MCA5919F

Description:	MOUSE ANTI BOVINE CD32:FITC
Specificity:	CD32
Other names:	FcRII
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CCG39
Isotype:	IgG2a
Quantity:	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.

	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.

Target Species

Bovine

Species Cross Reactivity

Does not react with:Sheep

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

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

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

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 CCG39**, 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 32 kDa, expressed on the cell surface of most cells including B-lymphocytes, monocytes, neutrophils and afferent veiled lymph dendritic cells (Chattha *et al.* 2010). It has been shown that expression of bovine CD32 is higher on macrophages than on neutrophils. CD32 can function in an inhibtory 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 CCG39 is one of a number of anti bovine CD32 reagents available from Bio-Rad, clone CCG39 is of interest in that it is specific to bovine CD32 and does not recognizes ovine CD32. For detection of ovine CD32, clone CCG36, which cross reacts with ovine CD32, may be used.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul
Further Reading	1. Kacskovics, I. (2004) Fc receptors in livestock species. Vet Immunol Immunopathol. 102 (4): 351-62. 2. 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. 3. 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.
Storage	Store at +4^{o}C or at -20^{o}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.
Shelf Life	18 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:FITC (MCA929F)

Recommended Useful Reagents

MOUSE ANTI BOVINE CD32:RPE (MCA5918PE)
MOUSE ANTI BOVINE CD32 (MCA5918GA)
MOUSE ANTI BOVINE CD32:FITC (MCA5918F)

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