

# Datasheet: MCA1424F **BATCH NUMBER 159935**

Description:	MOUSE ANTI BOVINE CD21:FITC
Specificity:	CD21
Other names:	CR2
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CC21
Isotype:	lgG1
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.biorad-antibodies.com/protocols.

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

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Species Cross
Reactivity

**Target Species** 

Reacts with: Goat, Sheep, Red deer, Mule deer

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for

further information.

**Bovine** 

**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 A from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
RRID	AB_323511
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSI myeloma cell line.
Specificity	Mouse anti Bovine CD21 monoclonal antibody, clone CC21 recognizes the bovine CD21 cell surface antigen, a ~145 kDa single pass type I membrane glycoprotein containing multiple <u>sushi</u> domains. CD21 is also known as complement receptor type 2. In cattle CD21 expression is restricted to B lymphocytes ( <u>Naessens et al. 1990</u> ). CD21 may be expressed on B cells as either a long or a short form ( <u>Pringle et al. 2012</u> )
	Mouse anti bovine CD21, clone CC21 has been used to demonstrate the co-expression of CD21 with PrPc on B cells of scrapie infected sheep ( <u>Halliday et al. 2005</u> ).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	Howard, C.J. <i>et al.</i> (1991) Summary of workshop findings for leukocyte antigens of cattle. Vet Immunol Immunopathol. 27 (1-3): 21-7.      Necessary, Let al. (1990) Characterization of a boying leucocyte differentiation entigen.
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#### Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1424F">https://www.bio-rad-antibodies.com/SDS/MCA1424F</a> 10041
Regulatory	For research purposes only

### Related Products

## **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 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 'M385465:210513'

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