

Datasheet: MCA1424PE

BATCH NUMBER 169075

Description:	MOUSE ANTI BOVINE CD21:RPE
Specificity:	CD21
Other names:	CR2
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CC21
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 - 1/10

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: 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.

Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution

Reconstitute with 1ml distilled water

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% sodium azide (NaN₃)
Stabilisers 1% bovine serum albumin
5% sucrose

RRID AB_566638

Fusion Partners Spleen cells from immunized 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 [sushi](#) domains. CD21 is also known as complement receptor type 2. In cattle CD21 expression is restricted to B lymphocytes ([Naessens et al. 1990](#)). CD21 may be expressed on B cells as either a long or a short form ([Pringle et al. 2012](#))

Mouse anti bovine CD21, clone CC21 has been used to demonstrate the co-expression of CD21 with PrP^c on B cells of scrapie infected sheep ([Halliday et al. 2005](#)).

Flow Cytometry Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl

References

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Storage	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE</p> <p>This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Guarantee	12 months from date of despatch
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Health And Safety	Material Safety Datasheet documentation #20487 available at:
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Information <https://www.bio-rad-antibodies.com/SDS/MCA1424PE>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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