

## Datasheet: MCA1424PE

|                      |                            |
|----------------------|----------------------------|
| <b>Description:</b>  | MOUSE ANTI BOVINE CD21:RPE |
| <b>Specificity:</b>  | CD21                       |
| <b>Other names:</b>  | CR2                        |
| <b>Format:</b>       | RPE                        |
| <b>Product Type:</b> | Monoclonal Antibody        |
| <b>Clone:</b>        | CC21                       |
| <b>Isotype:</b>      | IgG1                       |
| <b>Quantity:</b>     | 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](http://www.bio-rad-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.

|                                 |                                                                                                                                   |                            |                          |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| <b>Target Species</b>           | Bovine                                                                                                                            |                            |                          |
| <b>Species Cross Reactivity</b> | Reacts with: Goat, Sheep, Red deer, Mule deer<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. |                            |                          |
| <b>Product Form</b>             | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized                                                                   |                            |                          |
| <b>Reconstitution</b>           | Reconstitute with 1ml distilled water.                                                                                            |                            |                          |
| <b>Max Ex/Em</b>                | <b>Fluorophore</b>                                                                                                                | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                 | RPE 488nm laser                                                                                                                   | 496                        | 578                      |
| <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 Stabilisers</b> | 0.09% Sodium Azide                                                                                                                |                            |                          |
|                                 | 1% Bovine Serum Albumin                                                                                                           |                            |                          |
|                                 | 5% Sucrose                                                                                                                        |                            |                          |
| <b>Fusion Partners</b>          | Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 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<sup>C</sup>](#) on B cells of scrapie infected sheep ([Halliday et al. 2005](#)).

**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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|                                      |                                                                                                                                                                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                       | Prior to reconstitution store at +4°C.<br>After reconstitution store at +4°C.<br>DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. |
| <b>Shelf Life</b>                    | 12 months from date of reconstitution.                                                                                                                                                                                                                    |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10075 available at:<br>10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>                                                  |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                |

## Related Products

### Recommended Negative Controls

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

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
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