



## Datasheet: MCA2110

**BATCH NUMBER 147808**

|                      |                                  |
|----------------------|----------------------------------|
| <b>Description:</b>  | MOUSE ANTI BOVINE INTERLEUKIN-10 |
| <b>Specificity:</b>  | IL-10                            |
| <b>Format:</b>       | Purified                         |
| <b>Product Type:</b> | Monoclonal Antibody              |
| <b>Clone:</b>        | CC318                            |
| <b>Isotype:</b>      | IgG2b                            |
| <b>Quantity:</b>     | 0.5 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 (1)         | ▪   |    |                |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      | ▪   |    |                | 5ug/ml - 10ug/ml   |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           |     |    | ▪              |                    |
| ELISpot                    | ▪   |    |                |                    |

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1) Membrane permeabilization is required for this application. Bio-Rad recommends the use of Leucoperm ([BUF09](#)) for this purpose.**

### Target Species

Bovine

### Species Cross Reactivity

Reacts with: Horse, Sheep

**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 - liquid

|                                       |   |
|---------------------------------------|---|
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant   |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide  |
| <b>Carrier Free</b>                   | Yes   |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml   |
| <b>Immunogen</b>                      | Plasmid cDNA encoding bovine IL-10.   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P43480</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">281246</a>    IL10    <a href="#">Related reagents</a></p>   |
| <b>RRID</b>                           | AB_2249021  |
| <b>Fusion Partners</b>                | Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line  |
| <b>Specificity</b>                    | <b>Mouse anti Bovine Interleukin-10 antibody, clone CC318</b> recognizes bovine IL-10. Mouse anti Bovine Interleukin-10 antibody, clone CC318 has been shown not to inhibit the biological activity of IL-10.   |
| <b>ELISA</b>                          | This reagent may be used as a capture antibody in a sandwich ELISA assay for bovine IL-10 in combination with <a href="#">MCA2111B</a> as detection reagent, see <a href="#">Bannerman, D.D. et al.</a>   |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. Kwong, L.S. <i>et al.</i> (2002) Development of an ELISA for bovine IL-10. <a href="#">Vet Immunol Immunopathol. 85 (3-4): 213-23.</a></li> <li>2. Scandurra, G.M. <i>et al.</i> (2009) Assessment of live candidate vaccines for paratuberculosis in animal models and macrophages. <a href="#">Infect Immun. 78: 1383-9.</a></li> <li>3. Weiss DJ <i>et al.</i> (2008) Bovine monocyte TLR2 receptors differentially regulate the intracellular fate of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> and <i>Mycobacterium avium</i> subsp. <i>avium</i>. <a href="#">J Leukoc Biol. 83 (1): 48-55.</a></li> <li>4. Hamza, E. <i>et al.</i> (2007) Modulation of allergy incidence in icelandic horses is associated with a change in IL-4-producing T cells. <a href="#">Int Arch Allergy Immunol. 144: 325-37.</a></li> <li>5. Wenz, J.R. <i>et al.</i> (2010) Factors associated with concentrations of select cytokine and acute phase proteins in dairy cows with naturally occurring clinical mastitis. <a href="#">J Dairy Sci. 93: 2458-70.</a></li> <li>6. Rinaldi, M. <i>et al</i> (2010) A sentinel function for teat tissues in dairy cows: dominant innate immune response elements define early response to <i>E. coli</i> mastitis. <a href="#">Funct Integr Genomics. 10: 21-38.</a></li> </ol> |

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16. Olivier, M. *et al.* (2009) Capacities of migrating CD1b+ lymph dendritic cells to present *Salmonella* antigens to naive T cells. [PLoS One. 7: e30430.](#)
17. Shu, D. *et al.* (2011) Diverse cytokine profile from mesenteric lymph node cells of cull cows severely affected with Johne's disease. [Clin Vaccine Immunol. 18: 1467-76.](#)
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|--------------------------------------|---|
| <b>Storage</b>                       | Store at +4°C or at -20°C if preferred.<br><br>This product should be stored undiluted.<br><br>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |
| <b>Guarantee</b>                     | 12 months from date of despatch   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2110">https://www.bio-rad-antibodies.com/SDS/MCA2110</a><br>10040   |
| <b>Regulatory</b>                    | For research purposes only  |

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## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M366195:200529'

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