Datasheet: MCA834GA
BATCH NUMBER 159858

Product Details

**Description:** MOUSE ANTI BOVINE CD4

**Specificity:** CD4

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** CC30

**Isotype:** IgG1

**Quantity:** 0.1 mg

### 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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>-</td>
<td></td>
<td></td>
<td>1/25 - 1/200</td>
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<tr>
<td>Immunohistology - Frozen</td>
<td>-</td>
<td></td>
<td></td>
<td>1/100</td>
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<tr>
<td>Immunohistology - Paraffin (1)</td>
<td>-</td>
<td></td>
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<td>ELISA</td>
<td>-</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
<td>-</td>
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</table>

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.

(1) **Clone CC30** has been reported as being suitable for use on formal dichromate (FD5) fixed paraffin embedded tissue with amplification and antigen retrieval techniques, see [Gutierrez et al.](https://journals.sagepub.com/doi/10.1093/ajcp/43.5.423) for details.

### Target Species

**Bovine**

### Species Cross Reactivity

Reacts with: Bison

**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
---|---
Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution | Phosphate buffered saline
Preservative Stabilisers | 0.09% Sodium Azide (NaN₃)
Carrier Free | Yes
Approx. Protein Concentrations | IgG concentration 1.0 mg/ml
Immunogen | Bovine thymocytes.
External Database Links | UniProt: [A7YY52](#) Related reagents
Fusion Partners | Spleen cells from an immunised mouse were fused with cells of the mouse NS1 myeloma cell line.
Specificity | **Mouse anti Bovine CD4 antibody, clone CC30** recognizes a ~50 kDa transmembrane molecule considered to be the bovine homologue of human CD4. The phenotype, tissue distribution and function of T-cells expressing the bovine CD4 antigen are similar to those in other species. However, expression on macrophages has not yet been detected.

Mouse anti Bovine CD4, clone CC30 has successfully been used for immunohistochemical localization of CD4 on paraffin embedded material using zinc salt fixation ([Cantón et al. 2013](#)). Additionally, clone CC30 has been reported as being suitable for use on formal dichromate (FD5) fixed paraffin embedded tissue with amplification and antigen retrieval techniques ([Gutierrez et al. 1999](#)).

Flow Cytometry | Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References
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25. Clapp, B. et al. (2011) DNA vaccination of bison to brucellar antigens elicits elevated

**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.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
Goat Anti Mouse IgG (STAR70...)  
Goat Anti Mouse IgG IgA IgM (STAR87...)  
Goat Anti Mouse IgG (STAR76...)  
Goat Anti Mouse IgG (H/L) (STAR117...)  
Rabbit Anti Mouse IgG (STAR13...)  
Goat Anti Mouse IgG (Fc) (STAR120...)  
Rabbit Anti Mouse IgG (STAR9...)  

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Rabbit Anti Mouse IgG (STAR9...) FITC

Goat Anti Mouse IgG (STAR120...) FITC, HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M382970:210513'

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