Datasheet: MCA834GA
BATCH NUMBER 163079

Product Details

Description: MOUSE ANTI BOVINE CD4
Specificity: CD4
Format: Purified
Product Type: Monoclonal Antibody
Clone: CC30
Isotype: IgG1
Quantity: 0.1 mg

Applications

<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>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td>1/100</td>
</tr>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
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</tr>
</tbody>
</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., 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.
<table>
<thead>
<tr>
<th><strong>Product Form</strong></th>
<th>Purified IgG - liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Preparation</strong></td>
<td>Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant</td>
</tr>
<tr>
<td><strong>Buffer Solution</strong></td>
<td>Phosphate buffered saline</td>
</tr>
<tr>
<td><strong>Preservative Stabilisers</strong></td>
<td>0.09% Sodium Azide (NaN₃)</td>
</tr>
<tr>
<td><strong>Carrier Free</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Approx. Protein Concentrations</strong></td>
<td>IgG concentration 1.0 mg/ml</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Bovine thymocytes.</td>
</tr>
<tr>
<td><strong>External Database Links</strong></td>
<td>UniProt: A7YY52 Related reagents</td>
</tr>
<tr>
<td><strong>Fusion Partners</strong></td>
<td>Spleen cells from an immunised mouse were fused with cells of the mouse NS1 myeloma cell line.</td>
</tr>
<tr>
<td><strong>Specificity</strong></td>
<td><strong>Mouse anti Bovine CD4 antibody, clone CC30</strong> 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.</td>
</tr>
<tr>
<td><strong>Flow Cytometry</strong></td>
<td>Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.</td>
</tr>
</tbody>
</table>


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**


10040

**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...) FITC
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,
DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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

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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