Datasheet: MCA1653A647

**Description:** MOUSE ANTI BOVINE CD4: Alexa Fluor® 647

**Specificity:** CD4

**Format:** ALEXA FLUOR® 647

**Product Type:** Monoclonal Antibody

**Clone:** CC8

**Isotype:** IgG2a

**Quantity:** 100 TESTS/1ml

**Product Details**

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.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Neat - 1/10</td>
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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.

**Target Species**

Bovine

**Product Form**

Purified IgG conjugated to Alexa Fluor® 647 - liquid

**Max Ex/Em**

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexa Fluor®647</td>
<td>650</td>
<td>665</td>
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</table>

**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
1% Bovine Serum Albumin

**Approx. Protein Concentrations**

IgG concentration 0.05 mg/ml

**Immunogen**

Bovine lymphocytes.

**External Database Links**

UniProt: A7YY52

Related reagents

**Fusion Partners**

Spleen cells from an immunized mouse were fused with cells of the mouse NS1 myeloma cell line.
**Specificity**

*Mouse anti Bovine CD4 antibody, clone CC8* recognizes bovine CD4, the homolog of human CD4 and immunoprecipitates a ~50 kDa molecule. 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. Clone CC8 has been reported as being suitable for use on formalin dichromate (FD5) fixed paraffin embedded tissue with amplification and antigen retrieval techniques (Eskra et al. 1991).

**Flow Cytometry**

Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul.

**References**

high or low immune responders for antibody- or cell-mediated immune response. Can J Vet Res. 76: 149-56.
24. Metcalfe, H.J. et al. (2016) Protection associated with a TB vaccine is linked to increased frequency of Ag85A-specific CD4(+) T cells but no increase in avidity for Ag85A. Vaccine. 34 (38): 4520-5.

**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

18 months from date of despatch.

**Acknowledgements**

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Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL: Alexa Fluor® 647 (MCA929A647)