Datasheet: MCA1781A647

Description: MOUSE ANTI CANINE CD21: Alexa Fluor® 647

Specificity: CD21

Format: ALEXA FLUOR® 647

Product Type: Monoclonal Antibody

Clone: CA2.1D6

Isotype: IgG1

Quantity: 100 TESTS/1ml

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.

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
<td>-</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
Dog

Species Cross Reactivity
Reacts with: Horse, Cat, Raccoon

N.B. Antibody reactivity and working conditions may vary between species.

Product Form
Purified IgG conjugated to Alexa Fluor® 647 - liquid

Max Ex/Em

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tbody>
<tr>
<td>Alexa Fluor® 647</td>
<td>650</td>
<td>665</td>
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Preparation
Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution
Phosphate buffered saline

Preservative
0.09% Sodium Azide (NaN₃)

Stabilisers
1% Bovine Serum Albumin

Approx. Protein Concentrations
IgG concentration 0.05mg/ml

Specificity
Mouse anti Canine CD21 antibody, clone CA2.1D6 recognizes canine CD21, also known as Complement receptor type 2. CD21 is a cell surface antigen expressed by canine B lymphocytes.

The antigen recognised may be the canine homologue of human CD21, but this has not been fully...
Mouse anti Canine CD21 antibody, clone CA2.1D6 also recognizes the CD21 antigen in Felids. Expression in cats is analogous to that seen in dogs with strong expression on lymphocytes, in a manner mutually exclusive with expression of CD4 or CD8. Clone CA2.1D6 also immunoprecipitates a ~145 kDa protein from feline lymphocytes, similar to the protein immunoprecipitated by the antibody from canine lymphocytes (Dean et al. 1996).

**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood.

**References**


**Storage**

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

Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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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**Health And Safety Information**

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 647 (MCA928A647)

North & South America
Tel: +1 800 265 7376  
Fax: +1 919 878 3751  
Email: antibody_sales_us@bio-rad.com

Worldwide
Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739  
Email: antibody_sales_uk@bio-rad.com

Europe
Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50  
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