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

Product Details

RRID: AB_1658137

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>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<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: 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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</table>

Preparation: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution: Phosphate buffered saline

Preservative: 0.09% Sodium Azide (NaNO₃)

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 confirmed.

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. Mouse anti Canine CD21 antibody, clone CA2.1D6 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 10⁶ 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.

Guarantee
18 months from date of despatch.

Acknowledgements
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**Related Products**

**Recommended Negative Controls**

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

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