Datasheet: MCA1781R

**Description:** MOUSE ANTI CANINE CD21

**Specificity:** CD21

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** CA2.1D6

**Isotype:** IgG1

**Quantity:** 0.1 mg

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## Product Details

### 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>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1) The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

### Target Species

**Species Cross Reactivity**

Reacts with: Horse, Cat, Raccoon

**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)

**Approx. Protein Concentrations**
IgG concentration 1.0 mg/ml

**RRID**
AB_323665

**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 recognized 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 10μl of the suggested working dilution to label 10⁶ cells or 100μl whole blood

**References**
8. Yuasa, K. et al. (2007) Injection of a recombinant AAV serotype 2 into canine skeletal
27. Heinrich, F. et al. (2015) Immunophenotyping of immune cell populations in the
51. Troupel, T. et al. (2022) Generalised idiopathic polymyositis mimicking masticatory myositis in a dog *Veterinary Record Case Reports*. 10 (4) [Epub ahead of print].

**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**

Material Safety Datasheet documentation #10040 available at:

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**