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>
<td></td>
<td></td>
<td></td>
<td>1/100</td>
</tr>
<tr>
<td>Immunohistology - Frozen (1)</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</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)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

Dog

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.
<table>
<thead>
<tr>
<th>Product Form</th>
<th>Purified IgG - liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation</td>
<td>Purified IgG prepared by affinity chromatography on Protein A</td>
</tr>
<tr>
<td>Buffer Solution</td>
<td>Phosphate buffered saline</td>
</tr>
<tr>
<td>Preservative Stabilisers</td>
<td>0.09% Sodium Azide</td>
</tr>
<tr>
<td>Approx. Protein Concentrations</td>
<td>IgG concentration 1.0 mg/ml</td>
</tr>
<tr>
<td>RRID</td>
<td>AB_323665</td>
</tr>
</tbody>
</table>

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

**References**

8. Reggeti, F. et al. (2008) CD134 and CXCR4 expression corresponds to feline
44. Lee, J. et al. (2021) Canine Natural Killer Cell-Derived Exosomes Exhibit Antitumor

**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: https://www.bio-rad-antibodies.com/SDS/MCA1781R 10040

**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Mouse IgG (STAR12...) [**RPE**]
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos., HRP]
- Goat Anti Mouse IgG (STAR76...) [**RPE**]
- Rabbit Anti Mouse IgG (STAR13...) [**HRP**]
- Goat Anti Mouse IgG (STAR70...) [**FITC**]
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP]
- Goat Anti Mouse IgG (Fc) (STAR120...) [**FITC, HRP**]
Goat Anti Mouse IgG (STAR77...)     HRP
Rabbit Anti Mouse IgG (STAR9...)     FITC

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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
Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M383591:210513'

Printed on 19 Oct 2023

© 2023 Bio-Rad Laboratories Inc  |  Legal  |  Imprint