Datasheet: MCA1774GA

**Description:** MOUSE ANTI DOG CD3

**Specificity:** CD3

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** CA17.2A12

**Isotype:** IgG1

**Quantity:** 0.1 mg

### 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](http://www.bio-rad-antibodies.com/protocols).

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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.

**Target Species**

Dog

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from ascites

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% sodium azide (NaN₃)

**Approx. Protein Concentrations**

IgG concentration 1.0 mg/ml
**Immunogen**
Affinity enriched TCR/CD3 membrane proteins isolated from thymocytes and the T cell line CLGL-90

**External Database Links**
- UniProt: P27597
- Related reagents
- Entrez Gene: 442981 CD3E
- Related reagents

**RRID**
AB_1125250

**Specificity**
Mouse anti Dog CD3 antibody, clone CA17.2A12 recognizes the canine CD3 cell surface antigen, expressed by thymocytes and mature T lymphocytes. CD3 is engaged in the surface expression of the T-cell antigen receptor (TCR) and the signal transduction pathway resulting from MHC ligand binding to the TCR. CD3 is made up of a number of invariant subchains of the immunoglobulin superfamily.

Mouse anti Dog CD3 clone CA17.2A12 is a valuable flow cytometric and immunohistologic tool for canine lymphoma detection of T-cell origin (Miniscalco et al. 2003).

**Flow Cytometry**
Use 10μl of the suggested working dilution to label 10^6 cells or 100μl whole blood

**References**


49. do Prado Duzanski, A. et al. (2022) Cell-mediated immunity and expression of MHC class I and class II molecules in dogs naturally infected by canine transmissible venereal


**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/MCA1774GA 10040

**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Mouse IgG (STAR12...) RPE
- Goat Anti Mouse IgG IgA IgM (STAR87...) 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
- Rabbit Anti Mouse IgG (STAR9...) FITC
- Goat Anti Mouse IgG (STAR77...) HRP
- Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

**Recommended Negative Controls**

- MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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