Datasheet: MCA1774GA
BATCH NUMBER 159965

Product Details

**Description:** MOUSE ANTI DOG CD3

**Specificity:** CD3

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** CA17.2A12

**Isotype:** IgG1

**Quantity:** 0.1 mg

**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.biorad-antibodies.com/protocols.

<table>
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<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>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>Immunofluorescence</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

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide

**Approx. Protein**

IgG concentration 1.0 mg/ml
Concentrations

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

References
9. Huang, Y.C. et al. (2008) CD5-low expression lymphocytes in canine peripheral blood
28. Mie, K. et al. (2016) Change in peripheral blood lymphocyte count in dogs following


**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)**

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

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