Datasheet: MCA1774GA
BATCH NUMBER 167008

| 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.

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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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<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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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  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 10μl of the suggested working dilution to label 10^6 cells or 100μl whole blood

**References**

29. Mie, K. et al. (2016) Change in peripheral blood lymphocyte count in dogs following
41. Marchetti, C. et al. (2020) Profile of gamma-delta (γδ) T lymphocytes in the peripheral blood of crossbreed dogs during stages of life and implication in aging. BMC Vet Res. 16 (1): 278.

50. Konno, H. et al. (2022) An experimental challenge model for Leishmania donovani in beagle dogs, showing a similar pattern of parasite burden in the peripheral blood and liver. Parasitol Res. 121 (12): 3569-3579.


### 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)**