Datasheet: MCA1774GA

BATCH NUMBER 163954

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI DOG CD3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>CD3</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>CA17.2A12</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

### 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>
<thead>
<tr>
<th>Application</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>1/25 - 1/50</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<tr>
<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<tr>
<td>Immunofluorescence</td>
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</tbody>
</table>

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

Entrez Gene: 442981  CD3E

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.


### 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

<table>
<thead>
<tr>
<th>Antibody Type</th>
<th>Secondary</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit Anti Mouse IgG (STAR12...)</td>
<td>RPE</td>
<td><a href="#">Rabbit Anti Mouse IgG (STAR12...) RPE</a></td>
</tr>
<tr>
<td>Goat Anti Mouse IgG IgA IgM (STAR87...)</td>
<td>HRP</td>
<td><a href="#">Goat Anti Mouse IgG IgA IgM (STAR87...) HRP</a></td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (STAR76...)</td>
<td>RPE</td>
<td><a href="#">Goat Anti Mouse IgG (STAR76...) RPE</a></td>
</tr>
<tr>
<td>Rabbit Anti Mouse IgG (STAR13...)</td>
<td>HRP</td>
<td><a href="#">Rabbit Anti Mouse IgG (STAR13...) HRP</a></td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (STAR70...)</td>
<td>FITC</td>
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<tr>
<td>Goat Anti Mouse IgG (H/L) (STAR117...)</td>
<td>Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP</td>
<td><a href="#">Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP</a></td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR9...)</td>
<td>FITC</td>
<td><a href="#">Rabbit Anti Mouse IgG (STAR9...) FITC</a></td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (STAR77...)</td>
<td>HRP</td>
<td><a href="#">Goat Anti Mouse IgG (STAR77...) HRP</a></td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (Fc) (STAR120...)</td>
<td>FITC, HRP</td>
<td><a href="#">Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP</a></td>
</tr>
</tbody>
</table>

#### Recommended Negative Controls

**MOUSE IgG1 NEGATIVE CONTROL (MCA928)**