Datasheet: MCA1774GA
BATCH NUMBER 164076

Product Details

<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>

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.

<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>
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<td>1/25 - 1/50</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td></td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<tr>
<td>Immunofluorescence</td>
<td></td>
<td>√</td>
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</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**

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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<tbody>
<tr>
<td>P27597</td>
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<table>
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<tr>
<th>Entrez Gene:</th>
<th>Related reagents</th>
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<tbody>
<tr>
<td>442981</td>
<td>CD3E</td>
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</table>

**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**


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)