### Datasheet: MCA1774F

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI DOG CD3:FITC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>CD3</td>
</tr>
<tr>
<td>Format:</td>
<td>FITC</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>
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</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></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>Neat - 1/10</td>
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</table>

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 conjugated to Fluorescin Isothiocyanate Isomer 1 (FITC) - liquid

#### Preparation

Purified IgG prepared by affinity chromatography on Protein G

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

- 0.09% Sodium Azide
- 1% Bovine Serum Albumin

#### Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

#### Immunogen

Affinity enriched TCR/CD3 membrane proteins isolated from thymocytes and the T cell line CLGL-90

#### External Database Links

- **UniProt**: [P27597](http://www.uniprot.org/uniprot/P27597) Related reagents
Mouse anti Dog CD3 antibody, clone CA17.2A12 recognises 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.

**N.B.** MCA1774F should not be used with MCA1781PE (mouse anti canine B-cells), in dual colour flow cytometry, due to non-specific interactions between the two reagents.

**References**

17. Maiolini, A. et al. (2012) Toll-like receptors 4 and 9 are responsible for the maintenance of the inflammatory reaction in canine steroid-responsive meningitis-arteritis, a large animal model for neutrophilic meningitis. *J Neuroinflammation. 9: 226.*
12. 29-36.

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Related Products

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)**

<table>
<thead>
<tr>
<th>North &amp; South America</th>
<th>Worldwide</th>
<th>Europe</th>
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<tbody>
<tr>
<td>Tel: +1 800 265 7376</td>
<td>Tel: +44 (0)1865 852 700</td>
<td>Tel: +49 (0) 89 8090 95 21</td>
</tr>
<tr>
<td>Fax: +1 919 878 3751</td>
<td>Fax: +44 (0)1865 852 739</td>
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<tr>
<td>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a></td>
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'M301518:170109'

Printed on 17 Aug 2017