## Datasheet: MCA2606

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN C3d</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>C3d</td>
</tr>
<tr>
<td>Other names:</td>
<td>COMPLEMENT COMPONENT 3d</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>053A-1149.3.1.4 (also known as 1003)</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.1 ml</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](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>box</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td>box</td>
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<tr>
<td>ELISA</td>
<td>box</td>
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<tr>
<td>Western Blotting</td>
<td>box</td>
<td></td>
<td>1/5000</td>
<td></td>
</tr>
</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

Human

### Product Form

Purified Ig - liquid

### Preparation

Purified Ig prepared by affinity chromatography on Protein A.

### Buffer Solution

Borate buffered saline

### Preservative Stabilisers

0.1% Sodium Azide (NaN₃)

### Approx. Protein Concentrations

1.2mg/ml

### Immunogen

Purified C3d from human plasma.

### External Database Links

- UniProt: [P01024](http://www.uniprot.org/uniprot/P01024)
**Entrez Gene:**

718  C3  Related reagents

**Synonyms**  
CPAMD1

**Specificity**  
Mouse anti Human C3d antibody, clone 053A-1149.3.1.4 recognizes human complement component 3d (C3d), a ~33 kDa polypeptide fragment generated over the course of complement activation where complement 3 (C3) convertases cleave C3 to C3b, which is further degraded into iC3b and C3dg/C3d.

C3d is involved in the regulation of many aspects of the immune response, including antigen processing and presentation. The C3d/antigen complex mediates B cell activation by simultaneously binding antigen-specific surface bound immunoglobulin and CD21, lowering the complement activation threshold. C3 is crucial in the induction of tolerance generated when an antigen is introduced into immunoprivileged sites and this is exploited by pathogens and cancer cells to evade the immune system by inhibiting complement activation.

**Immunohistology**  
For best results Bio-Rad recommend HiSTAR detection kits.

**References**


**Further Reading**


**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG (STAR76...)  [RPE](#)
- Goat Anti Mouse IgA IgM (STAR87...)  [Alk. Phos., HRP](#)
- Rabbit Anti Mouse IgG (STAR9...)  [FITC](#)
- Goat Anti Mouse IgG (STAR77...)  [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...)  [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...)  FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)  DyLight®800
Goat Anti Mouse IgG (STAR70...)  FITC
Rabbit Anti Mouse IgG (STAR13...)  HRP
Human Anti Mouse IgG1 (HCA036...)  HRP
Goat Anti Mouse IgG (H/L) (STAR117...)  Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Recommended Useful Reagents

HISTAR DETECTION SYSTEM (STAR3000A)
HISTAR DETECTION SYSTEM (STAR3000B)
HISTAR DETECTION SYSTEM (STAR3000C)