## Product Details

**Description:** MOUSE ANTI HUMAN C3d

**Specificity:** C3d

**Other names:** COMPLEMENT COMPONENT 3d

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 053A-1149.3.1.4 (also known as 1003)

**Isotype:** IgG1

**Quantity:** 0.1 ml

### 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>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>ELISA</td>
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<td>Western Blotting</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

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 Related reagents
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.

Guarantee  
18 months from date of despatch.

Health And Safety Information  
Material Safety Datasheet documentation #10334 available at:  

10334

Regulatory  
For research purposes only.
Related Products

**Recommended Secondary Antibodies**

- Rabbit Anti Mouse IgG (STAR12...)  **RPE**
- Goat Anti Mouse IgG IgA IgM (STAR87...)  **Alk. Phos., 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**
- Goat Anti Mouse IgG (Fc) (STAR120...)  **FITC, HRP**
- Goat Anti Mouse IgG (STAR77...)  **HRP**
- Rabbit Anti Mouse IgG (STAR9...)  **FITC**

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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