

Datasheet: MCA2606

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

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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
ELISA	▪			
Western Blotting	▪			1/5000

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 (NaN ₃)
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
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Specificity	<p>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.</p> <p>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.</p>
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Immunohistology	For best results Bio-Rad recommend HISTAR detection kits.
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References	<ol style="list-style-type: none">1. Gay, F. (2013) Staphylococcal immune complexes and myelinolytic toxin in early acute multiple sclerosis lesions-An immunohistological study supported by multifactorial cluster analysis and antigen-imprint isoelectric focusing. Mult Scler Relat Disord. 2 (3): 213-32.2. Fujieda, M. <i>et al.</i> (2012) L-ficolin and capsular polysaccharide-specific IgG in cord serum contribute synergistically to opsonophagocytic killing of serotype III and V group B streptococci. Infect Immun. 80 (6): 2053-60.
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Further Reading	<ol style="list-style-type: none">1. Bergmann-Leitner, E.S. <i>et al.</i> (2006) Complement 3d: from molecular adjuvant to target of immune escape mechanisms. Clin Immunol. 121 (2): 177-85.
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Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
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Shelf Life	Please see label for expiry date.
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Health And Safety Information	Material Safety Datasheet documentation #10334 available at: 10334: https://www.bio-rad-antibodies.com/uploads/MSDS/10334.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG 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 \(STAR3000C\)](#)

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