

Datasheet: 0200-0615

Description:	MOUSE ANTI HUMAN C3a
Specificity:	C3a
Other names:	COMPLEMENT COMPONENT 3a
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	H13
Isotype:	IgG2b
Quantity:	50 µg

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
Immunohistology - Frozen	▪			1/10
Immunohistology - Paraffin			▪	
ELISA	▪			
Western Blotting	▪			

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

Species Cross Reactivity

Reacts with: Guinea Pig, Rabbit

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - lyophilized

Reconstitution

Reconstitute with 1.0ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide, 0.5% Bovine Serum Albumin.
Approx. Protein Concentrations	IgG concentration 50 ug/ml after reconstitution.
Immunogen	Human complement component C3.
External Database Links	<p>UniProt: P01024 Related reagents</p> <p>Entrez Gene: 718 C3 Related reagents</p>
Synonyms	CPAMD1
RRID	AB_2195325
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the non-secreting P3-X63-Ag8.653 myeloma cell line.
Specificity	<p>Mouse anti Human C3a antibody, clone H13 recognizes human C3a anaphylatoxin, a cleavage product of human complement component C3. C3a increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes.</p> <p>Mouse anti Human C3a antibody, clone H13 recognizes a C3a-determinant also present on native C3. Mouse anti Human C3a antibody, clone H13 allows discrimination of ubiquitous or non-specifically bound native C3 or C3a from biologically active C3b fragment, neither C3b or C5 components are recognized by Mouse anti Human C3a antibody, clone H13 (Burger <i>et al.</i> 1987).</p> <p>Mouse anti Human C3a antibody, clone H13 is reported to block C3a functional activity (Hartmann <i>et al.</i> 1997).</p>
References	<ol style="list-style-type: none"> Burger, R. <i>et al.</i> (1988) The C terminus of the anaphylatoxin C3a generated upon complement activation represents a neoantigenic determinant with diagnostic potential. J Immunol. 141 (2): 553-8. Hartmann, K. <i>et al.</i> (1997) C3a and C5a stimulate chemotaxis of human mast cells. Blood. 89 (8): 2863-70. Möller, T. <i>et al.</i> (1997) Mechanisms of C5a and C3a complement fragment-induced [Ca²⁺]_i signaling in mouse microglia. J Neurosci. 17 (2): 615-24.
Storage	This product is shipped at ambient temperature. Prior to reconstitution store at +4°C.

After reconstitution it is recommended to 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	Guaranteed until date of expiry. Please see product label.
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Health And Safety Information	Material Safety Datasheet documentation #20486 available at: https://www.bio-rad-antibodies.com/SDS/0200-0615 20486
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Regulatory	For research purposes only
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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
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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Printed on 04 Mar 2025