

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.
Product Form	Purified IgG - lyophilised
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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide, 0.5% Bovine Serum Albumin.
Approx. Protein Concentrations	IgG concentration 50 µg/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
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 et al. 1987).</p> <p>Mouse anti Human C3a antibody, clone H13 is reported to block C3a functional activity (Hartmann et al. 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	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended. This product should be stored undiluted.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

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 IgG2b (HCA038...) [FITC](#), [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 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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