Datasheet: MCA2608

Description:	MOUSE ANTI HUMAN C4c
Specificity:	C4c
Other names:	COMPLEMENT COMPONENT 4c
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	033D-69.4.1 (10-12)
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

RRID	AB_844529
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 (1)	▪			
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.

(1)**Clone 10-12 binds both C4c and C4 and so is not suitable for all ELISA applications.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Borate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	1.0mg/ml
Immunogen	Purified human C4c.

External Database Links	**UniProt:** P0C0L5 Related reagents **Entrez Gene:** 721 C4B Related reagents
Synonyms	CO4, CPAMD3
Specificity	**Mouse anti Human C4c antibody, clone 033D-69.4.1 (10-12)** recognizes complement component 4c (C4c). The complement 1 complex cleaves complement 4 (C4) to form C4b and C4a. C4b levels are strictly regulated. Single site cleavage of the C4b's alpha chain by Factor I forms iC4b and blocks C3 convertase, inhibiting opsonisation and activation of the classical pathway. iC4b is further degraded into the inactive fragments C4d and C4c. C4c consists of two a-chain fragments, alpha 4 (13 kDa) and alpha 3 (25 kDa) linked to a beta chain through disulphide bridges and a gamma chain. It is expressed in the blood plasma.
Immunohistology	For best results Bio-Rad recommend HISTAR detection kits.
Histology Positive Control Tissue	Kidney sections from post-streptococcal glomerulonephritis patients.
References	1. Leung, E. *et al.* (2006) The complement regulator C4b-binding protein (C4BP) interacts with both the C4c and C4dg subfragments of the parent C4b ligand: evidence for synergy in C4BP subsite binding. Biochemistry. 45 (27): 8378-92.
Storage	Store at +4ºC or at -20ºC 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	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10077 available at: 10077: https://www.bio-rad-antibodies.com/uploads/MSDS/10077.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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)

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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