

Datasheet: MCA2609

BATCH NUMBER 165802

Description:	MOUSE ANTI HUMAN C4BP
Specificity:	C4BP
Other names:	COMPLEMENT COMPONENT 4BP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	051-198.6.3 (10-07)
Isotype:	IgG2b
Quantity:	0.1 mg

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
ELISA	▪			

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 the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites
Buffer Solution	Borate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.145 mg/ml
Immunogen	Native human C4 binding protein.

**External Database
Links**

UniProt:

[P04003](#) [Related reagents](#)

Entrez Gene:

[722](#) C4BPA [Related reagents](#)

Synonyms

C4BP

RRID

AB_2066894

Specificity

Mouse anti human C4bp monoclonal antibody, clone 051-198.6.3 (10-07), recognizes complement component 4 binding protein (C4bp). There are three variants of C4bp, composed of alpha and beta chains. The predominant form is a 570 kDa complex of 7 alpha chains and 1 beta chain. The other complexes formed are a 530 kDa homoheptamer of alpha chains or a 500 kDa complex of 6 alpha chains and 1 beta chain.

C4bp regulates the activation of the classical complement pathway. It is a cofactor to the C3b/C4b inactivator, crucial to the proteolytic cleavage of C4b and important in cleavage of C3b. C4bp also regulates the C4bC2a complex (C3 convertase), accelerating its degradation by dissociating the complement fragment C2a.

Both the C4bp alpha and beta chains interact with anticoagulant protein S and C4bp alpha binds protein S. C4bp is expressed in the blood serum.

References

1. Huang, S. *et al.* (2016) Reciprocal relationship between contact and complement system activation on artificial polymers exposed to whole human blood [Biomaterials. 77: 111-9.](#)

Further Reading

1. Blom, A.M. *et al.* (2004) Functions of human complement inhibitor C4b-binding protein in relation to its structure. [Arch Immunol Ther Exp \(Warsz\). 52 \(2\): 83-95.](#)

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, 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.

**Health And Safety
Information**

Material Safety Datasheet documentation #10077 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2609>
10077

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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

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