

Datasheet: MCA2649

Description:	MOUSE ANTI HUMAN C4d (NEOANTIGEN)
Specificity:	C4d (NEOANTIGEN)
Other names:	COMPLEMENT COMPONENT 4d
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	057-51.5.1.6
Isotype:	IgG1
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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

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 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	Current, batch-specific concentration 1.112 mg/ml

Concentrations

Immunogen Purified human C4d.

External Database Links

UniProt:

[P0C0L4](#) [Related reagents](#)

[P0C0L5](#) [Related reagents](#)

Entrez Gene:

[720](#) C4A [Related reagents](#)

[721](#) C4B [Related reagents](#)

Synonyms CO4, CPAMD2, CPAMD3

RRID AB_871990

Specificity **Mouse anti Human C4d (Neoantigen) antibody, clone 057-51.5.1.6** recognizes a neoantigen on the secreted protein complement component 4d (C4d). 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. This requires C4 binding protein or CR1 as a cofactor. iC4b is further degraded into C4d and C4c. The short half life of C4d means that it is present in serum at high enough concentrations to make it a useful marker for classical complement activation.

C4 has been linked to susceptibility to systemic lupus erythematosus.

Histology Positive Control Tissue

Kidney from post streptococcal glomerulonephritis patients

References

1. Rogers, J. *et al.* (1992) Complement activation by beta-amyloid in Alzheimer disease. [Proc Natl Acad Sci U S A. 89 \(21\): 10016-20.](#)

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/MCA2649>
10077

Regulatory

For research purposes only

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
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 (STAR9...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (STAR77...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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
'M431727:240813'

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