

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
Buffer Solution	Borate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.07 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 Store at +4°C or at -20°C 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 #10334 available at: 10334: <https://www.bio-rad-antibodies.com/uploads/MSDS/10334.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

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

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

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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
'M378938:210316'

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