

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 Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified human C4d.
External Database	UniProt:

Links	P0C0L4	Related reagents
	P0C0L5	Related reagents

Entrez Gene:

720	C4A	Related reagents
721	C4B	Related reagents

Synonyms	CO4, CPAMD2, CPAMD3
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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.
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C4 has been linked to susceptibility to systemic lupus erythematosus.

Histology Positive Control Tissue	Kidney from post streptococcal glomerulonephritis patients
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References	1. Rogers, J. <i>et al.</i> (1992) Complement activation by beta-amyloid in Alzheimer disease. Proc Natl Acad Sci U S A. 89 (21): 10016-20.
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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.
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Shelf Life	Please see label for expiry date
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Health And Safety Information	Material Safety Datasheet Documentation #10334 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10334.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

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

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)
[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)
[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)

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