Datasheet: MCA2644

BATCH NUMBER 170135

Description:	MOUSE ANTI HUMAN C7
Specificity:	C7
Other names:	COMPLEMENT COMPONENT 7
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	030-113.7.5.4
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 Concentrations	Current, batch-specific concentration 1.004 mg/ml
Immunogen	Purified human C7.
External Database Links	**UniProt:** P10643 Related reagents **Entrez Gene:** 730 C7 Related reagents
RRID	AB_2067432
Specificity	**Mouse anti Human C7 antibody, clone 030-113.7.5.4** recognises complement component 7 (C7), a 110 kDa glycoprotein present in the blood serum. The factor I domain of C7 binds the C terminus of the C5 alpha-chain, acting as a membrane anchor. This enables the assembly of the complement membrane attack complex (MAC) and consequent complement lytic activity. C7 deficiency is associated with increased susceptibility to recurrent infections, in particular by *Neisseria meningitides*. Mouse anti Human C7 antibody, clone 030-113.7.5.4 does not recognie membrane bound complement membrane attack complex. Mouse anti Human C7 antibody, clone 030-113.7.5.4 inhibits lysis of sensitised sheep erythrocytes. Removal of Sodium Azide is recommended prior to use in functional assays.
References	1. Langer, F. *et al.* (2013) Rapid activation of monocyte tissue factor by antithymocyte globulin is dependent on complement and protein disulfide isomerase. Blood. 121 (12): 2324-35.
Further Reading	1. Thai, C.T. & Ogata, R.T. (2004) Complement components C5 and C7: recombinant factor I modules of C7 bind to the C345C domain of C5. J Immunol. 173 (7): 4547-52. 2. Debard, A.L. *et al.* (2005) FcgammaRIIIb and complement component C7 codeficiency in a patient with recurrence of fulminant meningococcal septic shock. Clin Infect Dis. 40 (11): 1679-83.
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	Material Safety Datasheet documentation #10077 available at:

Information	https://www.bio-rad-antibodies.com/SDS/MCA2644
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 (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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