Datasheet: MCA2647

BATCH NUMBER 173057

Description:	MOUSE ANTI HUMAN COMPLEMENT FACTOR B (Ba FRAGMENT)
Specificity:	COMPLEMENT FACTOR B (Ba FRAGMENT)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	014III-33.2.4.3
Isotype:	IgG1
Quantity:	0.1 ml

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 (1)	▪			
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.

(1)**Clone 014III-33.2.4.3 binds both the Ba fragment and the whole protein so is not suitable for all ELISA applications.**

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 1.1 mg/ml
Immunogen	Purified human complement factor b.
External Database Links	**UniProt:** P00751 Related reagents **Entrez Gene:** 629 CFB Related reagents
Synonyms	BF, BFD
RRID	AB_2080001
Specificity	**Mouse anti Human Complement Factor B (Ba Fragment) antibody, clone 014III-33.2.4.3** recognises the 30 kDa Ba fragment of 90 kDa human complement factor B, present in blood serum. C3b associates with complement factor B, inducing conformational change. This enables complement factor D to cleave the N-terminal of complement factor B (the Ba subunit), leaving the 63 kDa Bb subunit associated with C3b, forming C3 convertase. Subunit Ba inhibits lymphocyte proliferation. Conversely, subunit Bb is involved in the proliferation of preactivated B lymphocytes. Mouse anti Human Complement Factor B (Ba Fragment) antibody, clone 014III-33.2.4.3 blocks activity of the target protein. Removal of Sodium Azide is recommended prior to use in functional assays.
Histology Positive Control Tissue	Kidney from post streptococcal glomerulonephritis patients
References	1. Zipplies, J.K. *et al.* (2010) Complement factor B expression profile in a spontaneous uveitis model. Immunobiology. 215 (12): 949-55. 2. Loyet, K.M. *et al.* (2012) Activation of the alternative complement pathway in vitreous is controlled by genetics in age-related macular degeneration. Invest Ophthalmol Vis Sci. 53 (10): 6628-37. 3. Katschke, K.J. Jr. *et al.* (2018) Classical and alternative complement activation on photoreceptor outer segments drives monocyte-dependent retinal atrophy. Sci Rep. 8 (1): 7348.
Further Reading	1. Xu, Y. *et al.* (2001) Structural biology of the alternative pathway convertase. Immunol Rev. 180: 123-35. 2. Ponnuraj, K. *et al.* (2004) Structural analysis of engineered Bb fragment of complement factor B: insights into the activation mechanism of the alternative pathway C3-convertase. Mol Cell. 14 (1): 17-28.
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/MCA2647
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
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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