Datasheet: MCA2607

Description: MOUSE ANTI HUMAN iC3b (NEOANTIGEN)

Specificity: iC3b (NEOANTIGEN)

Other names: INACTIVATED COMPLEMENT COMPONENT 3b

Format: Purified

Product Type: Monoclonal Antibody

Clone: 013III-1.16

Isotype: IgG2b

Quantity: 0.1 mg

RRID: AB_877464

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.

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<tr>
<th>Suggested Dilution</th>
<th>Flow Cytometry</th>
<th>Immunohistology - Frozen</th>
<th>Immunohistology - Paraffin</th>
<th>ELISA</th>
<th>Immunoprecipitation</th>
<th>Western Blotting</th>
<th>Functional Assays</th>
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<td>10 ug/ml</td>
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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: 0.09% Sodium Azide (NaN_3)

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

Immunogen: Purified human iC3b
Mouse anti Human iC3b (Neoantigen) antibody, clone 013III-1.16 recognizes the ~42 kDa human inactive complement component 3b (iC3b) neoantigen present in blood serum. Cleavage of C3b into iC3b by the protease factor I, in the presence of cofactors, changes the structure and resulting binding properties, preventing binding by complement factor B and properdin. This prevents further progression of the complement pathway, providing another mechanism by which the complement pathway may be regulated.

iC3b is thought to play a role in inducing tolerance, binding complement receptor type 3 on antigen presenting cells and stimulating them to produce transforming growth factor beta2 and interleukin-10. It is thought to stimulate B-cells via the CD21 receptor providing a link between the innate and adaptive immune responses. Additionally iC3b acts as an opsonin which is recognised by complement receptor 3 expressed on leukocytes or complement receptor of the immunoglobulin superfamily (CR1g) on Kupffer cells, stimulating phagocytosis of the tagged cells. iC3b levels are often elevated in diseases such as Systemic Lupus Erythematosus and Rheumatoid arthritis. iC3b levels are often elevated in diseases such as Systemic Lupus Erythematosus and Rheumatoid arthritis.

Histology Positive Control Tissue
Kidney from post streptococcal glomerulonephritis patients

Further Reading

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
18 months from date of despatch.

Health And Safety Information

Regulatory
For research purposes only

Related Products
Recommended Secondary Antibodies
Goat Anti Mouse IgG IgA IgM (STAR87...)  Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...)  HRP
Rabbit Anti Mouse IgG (STAR12...)  RPE
Rabbit Anti Mouse IgG (STAR8...)  DyLight®800
Rabbit Anti Mouse IgG (STAR13...)  HRP
Goat Anti Mouse IgG (STAR76...)  RPE
Goat Anti Mouse IgG (STAR70...)  FITC
Goat Anti Mouse IgG (Fc) (STAR120...)  FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)  FITC
Human Anti Mouse IgG2b (HCA038...)  FITC
Goat Anti Mouse IgG (H/L) (STAR117...)  Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

Recommended Useful Reagents

HISTAR DETECTION SYSTEM (STAR3000A)