



# Anti-C3 monoclonal antibody, clone 013III-1.16 (CABT-47947MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

This product recognises 42kDa 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 (CRIg) on Kupffer cells, stimulating phagocytosis of the tagged cells. iC3b levels are often elevated in diseases such as Systemic Lupus Erythematosus and Rheumatoid arthritis.

<b>Specificity</b>	iC3b
<b>Immunogen</b>	Purified human iC3b
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	013III-1.16
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-Fr; ELISA; FC; WB

<b>Format</b>	Purified IgG - liquid
<b>Size</b>	100 µg
<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	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.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">C3 complement component 3 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	C3
<b>Synonyms</b>	C3; complement component 3; ASP; C3a; C3b; AHUS5; ARMD9; CPAMD1; HEL-S-62p; complement C3; prepro-C3; C3a anaphylatoxin; complement component C3; complement component C3a; complement component C3b; acylation-stimulating protein cleavage product; epididymi
<b>Entrez Gene ID</b>	<a href="#">718</a>
<b>Protein Refseq</b>	<a href="#">NP_000055</a>
<b>UniProt ID</b>	P01024
<b>Chromosome Location</b>	19p13.3-p13.2
<b>Pathway</b>	Activation of C3 and C5; Adaptive Immune System; Alternative complement activation; Chagas disease (American trypanosomiasis); Class A/1 (Rhodopsin-like receptors); Complement Activation, Classical Pathway; Complement and Coagulation Cascades; Complement and coagulation cascades;
<b>Function</b>	C5L2 anaphylatoxin chemotactic receptor binding; endopeptidase inhibitor activity; protein binding; receptor binding;