

Product datasheet for **AM05608PU-N**

Complement C3 (C3) (Neoantigen, iC3b) Mouse Monoclonal Antibody [Clone ID: 013III-1.16]

Product data:

Product Type:	Primary Antibodies
Clone Name:	013III-1.16
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	ELISA. Western blot. Flow Cytometry. Immunohistochemistry on Frozen Sections. <i>Histology Positive Control Tissue:</i> Kidney from post streptococcal glomerulonephritis patients.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified Human iC3b
Specificity:	AM05608PU-N Recognises 42kDa inactive complement component 3b (iC3b) neoantigen present in blood serum.
Formulation:	Borate buffered saline pH 8.2-8.4 State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	complement component 3
Database Link:	Entrez Gene 718 Human P01024



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Background:

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.

Synonyms:

CPAMD1, Complement component 3

Protein Families:

Druggable Genome

Protein Pathways:

Complement and coagulation cascades, Systemic lupus erythematosus