

Product datasheet for **AM01326PU-N**

Complement C3 (C3) Mouse Monoclonal Antibody [Clone ID: 10-02A]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10-02A
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	ELISA: This antibody binds both C3c and C3 and so is not suitable for all ELISA applications. Western Blot. Flow Cytometry. Immunohistochemistry on frozen sections. Recommended Positive Control: Kidney from post streptococcal glomerulonephritis patients.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Native human C3 from normal serum, highly purified by chromatography.
Specificity:	This antibody recognises 135kDa complement component 3c (C3c), present in blood serum.
Formulation:	Borate buffered saline pH 8.4 containing 0.02% Sodium Azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody 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:	C3c is generated over the course of complement activation, where convertase C4b2a (classical pathway) and convertase C3bBb (alternative pathway) cleave C3 to C3b and C3a. C3b is further degraded into iC3b and C3dg/C3d. iC3b is then slowly cleaved (possibly by factor I) to form C3c (beta chain + alpha chain fragment 1 + alpha chain fragment 2), C3dg and C3f. C3 is crucial in the induction of tolerance generated when an antigen is introduced into immunoprivileged sites and this is exploited by pathogens and cancer cells to evade the immune system by inhibiting complement activation.
Synonyms:	CPAMD1, Complement component 3
Protein Families:	Druggable Genome
Protein Pathways:	Complement and coagulation cascades, Systemic lupus erythematosus