

Product datasheet for **AM01325PU-N**

Complement C3 (C3) Mouse Monoclonal Antibody [Clone ID: 10-21]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10-21
Applications:	ELISA, WB
Recommended Dilution:	Western Blot. ELISA: 1/1500-1/6000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Native purified Human C3a.
Specificity:	This antibody recognizes 9 kDa complement component 3a (C3a) which is present in the blood serum. The antibody shows minimal reactivity with other complement proteins in radioimmunoassays and haemagglutination.
Formulation:	Borate buffered saline, pH8.2 containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
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:	C3a is generated over the course of complement activation where complement 3 (C3) convertases cleave C3 to C3a and C3b, which is further degraded into iC3b and C3dg/C3d. 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. C3a mediates local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. C3a is expressed at significantly higher levels in colorectal cancer.
Synonyms:	CPAMD1, Complement component 3
Protein Families:	Druggable Genome
Protein Pathways:	Complement and coagulation cascades, Systemic lupus erythematosus