

## Product datasheet for **AM01349PU-N**

### Complement C3 (C3) Mouse Monoclonal Antibody [Clone ID: 053A-514.3.1.4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	053A-514.3.1.4
Applications:	ELISA, FC, IHC
Recommended Dilution:	<b>ELISA.</b> <b>Flow Cytometry.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Recommended Positive Control:</b> Kidney from post streptococcal glomerulonephritis patients.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human C3d (Neoantigen).
Specificity:	This antibody is specific for complement component 3d (C3d) neoantigen, a 33kDa polypeptide fragment generated over the course of complement activation in which where complement 3 (C3) convertases cleave C3 to C3b, which is further degraded into iC3b and C3dg/C3d.
Formulation:	Borate buffered saline pH 8.2-8.4 State: Purified State: Liquid purified IgG fraction Preservative: 0.02% 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



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**Database Link:** [Entrez Gene 718 Human P01024](#)

**Background:** C3d is involved in the regulation of many aspects of the immune response, including antigen processing and presentation. The C3d/antigen complex mediates B cell activation by simultaneously binding antigen-specific surface bound immunoglobulin and CD21, lowering the complement activation threshold. 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