

Product datasheet for **AM01350PU-N**

Complement C4d (C4d) (neoepitope) Mouse Monoclonal Antibody [Clone ID: 057-51.5.1.6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	057-51.5.1.6
Applications:	ELISA, FC, IHC
Recommended Dilution:	ELISA. Flow Cytometry. Immunohistochemistry on Frozen Sections. Recommended Positive Control: Kidney from post streptoccal glomerulonephritis patients.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human C4d.
Specificity:	This antibody recognizes a neoantigen on the secreted protein complement component 4d (C4d).
Formulation:	Borate buffered saline 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.



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Background:

The complement 1 complex cleaves complement 4 (C4) to form C4b and C4a. C4b levels are strictly regulated. Single site cleavage of the C4bs alpha chain by Factor I forms iC4b and blocks C3 convertase, inhibiting opsonisation and activation of the classical pathway. This requires C4 binding protein or CR1 as a cofactor. iC4b is further degraded into C4d and C4c. The short half life of C4d means that it is present in serum at high enough concentrations to make it a useful marker for classical complement activation. C4 has been linked to susceptibility to systemic lupus erythematosus.

Synonyms:

Complement component 4, CPAMD2, CPAMD3, Acidic complement C4, Basic complement C4