

Product datasheet for **AM01328PU-N**

Complement C4A (C4A) Mouse Monoclonal Antibody [Clone ID: 10-12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10-12
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	Western Blot. Flow Cytometry. ELISA: This antibody binds both C4c and C4 and so is not suitable for all ELISA applications. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 10 µg/ml. Recommended Positive Control: Kidney sections from post-streptococcal glomerulonephritis patients.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human Complement C4c.
Specificity:	This antibody recognises complement component 4c (C4c).
Formulation:	Borate buffered saline, pH 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 4A (Rodgers blood group)



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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. iC4b is further degraded into the inactive fragments C4d and C4c. C4c consists of two a-chain fragments, alpha 4 (13 kDa) and alpha 3 (25 kDa) linked to a beta chain through disulphide bridges and a gamma chain. It is expressed in the blood plasma.

Synonyms: Complement Component 4, CPAMD2, CPAMD3

Protein Pathways: Complement and coagulation cascades, Systemic lupus erythematosus