

Product datasheet for **AM26326PU-N**

C4b (C4b+C4d) Rat Monoclonal Antibody [Clone ID: 16D2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	16D2
Applications:	ELISA, IF, IHC, IP, WB
Recommended Dilution:	Immunohistochemistry on Frozen Sections: Tissue sections were fixed in ice-cold acetone and blocked with 2% BSA, FCS and PBS (Ref.1). The typical starting working dilution is 1/50. Immunoassay (Ref.2,3). Immunofluorescence (Ref.2). Immunoprecipitation (Ref.1). Western Blot (Ref.1,4): A non-reduced sample treatment and SDS-Page was used. The band size is 200x kDa (Ref.4). The typical starting working dilution is 1/50. Positive Control: T-cell regions of Mouse spleen.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Thymocytes decorated with Thy-1 antibody and complement components
Specificity:	The monoclonal antibody <i>16D2</i> recognizes Mouse complement factor C4, formerly known as Gg protein, which consists of an alpha-, beta-, and gamma-chain. Cross reacts with C4b and C4d.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated



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Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	complement component 4B (Chido blood group)
Database Link:	Entrez Gene 12268 Mouse P01029
Background:	<p>The classical pathway of complement and the Mannose binding lectin activation pathway converge at C4. C1s, MASP-1 and MASP-2 cleave C4 resulting in the formation of C4a and C4b. Subsequently, C4b can be cleaved to C4c and C4d by other serum enzymes. The monoclonal antibody 16D2 reacts with intact C4, C4b and C4d.</p> <p>C4 is an acute phase protein that is produced by hepatocytes, monocytes and intestinal epithelial cells and can be used in experimental animals as a marker for activation of the classical complement pathway. Recent studies have demonstrated an association between graft rejection and C4d deposition in a mouse model for cardiac transplantation.</p>
Synonyms:	Complement component 4, Basic complement C4, CO4, CPAMD3