

Rat anti-C4b C4d C4 Monoclonal Antibody | anti-C4 antibody

C4, Mouse, mAb 16D2

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77776	Rat	C4bC4d	Western Blot, Immunoprecipitation, Immunofluorescence

PRODUCT SYNONYMS

C4; Monoclonal Antibody; Mouse; mAb 16D2; Complement component 4; anti-C4 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	C4b C4d
Clonality	Monoclonal
Isotype	Rat IgG2a
Form/Format	1 ml (100 ug/ml) 0.2 um filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide. For unit size 0.5 mg or larger: PBS only (concentration< 0.5mg/ml)
Sequence Length	44
Applicable Applications for anti-C4 antibody	WB (Western Blot), IP (Immunoprecipitation), IF (Immunofluorescence), IA (Immunoassay)
Immunogen	Thymocytes decorated with Thy-1 antibody and complement components
Positive Control	T-cell regions of mouse spleen
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

ADDITIONAL INFORMATION

Related Product Information for anti-C4 antibody	<p>Product Description: The monoclonal antibody 16D2 recognizes mouse complement factor C4, formerly known as Gg protein, which consists of an alpha-, beta-, and gamma-chain. 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>
References	<ol style="list-style-type: none"> 1. Kremmer, E et al; Monoclonal antibodies to complement components without the need of their prior purification. II. Antibodies to mouse C3 and C4. Hybridoma 1990, 9 : 309 2. Gadjeva, M et al; Macrophage-derived complement component C4 can restore humoral immunity in C4-deficient mice. J Immunol 2002, 169: 5489 3. Paul E et al; Anti-DNA autoreactivity in C4-deficient mice. Eur J Immunol 2002, 32: 2672 4. Murata, K et al; Synergistic deposition of C4d by complement-activating and non-activating antibodies in cardiac transplants. Am J Transplant 2007, 7: 2605

NCBI AND UNIPROT INFORMATION

NCBI GI #	287732
NCBI GeneID	12268
UniProt Accession #	P01029; O70346; Q31201; Q3TYY1; Q3TZC9; Q61372; Q61859; Q62353; Q6NWW8; E9QKK7
Molecular Weight	192,915 Da
NCBI Official Full Name	C4, partial
NCBI Official Synonym Full Names	complement component 4B (Chido blood group)
NCBI Official Symbol	C4b
NCBI Official Synonym Symbols	C4; Ss
NCBI Protein Information	complement C4-B; complement component 4 (within H-2S); complement component 4B (Childo blood group)
UniProt Protein Name	Complement C4-B
UniProt Gene Name	C4b
UniProt Synonym Gene Names	C4
UniProt Entry Name	CO4B_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/c4-antibody-western-blot-immunoprecipitation-immunofluorescence-immunoassay-elisa/77776>