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Product datasheet for AM26264PU-N

Complement C3 (C3) (C-term) Mouse Monoclonal Antibody [Clone ID: 755]

Product data:

Product Type:	Primary Antibodies
Clone Name:	755
Applications:	ELISA, WB
Recommended Dilution:	Immunoassay. Western blot: A non-reduced or reduced sample treatment and SDS-PAGE was used. The band size (s) are ~190 and ~100 kDa under non-reducing and reducing conditions respectively. (Ref.1). The typical starting working dilution is 1:50. Not suitable for Functional assays. Positive control: Human serum. Negative control: C3 deficient serum.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Native C3
Specificity:	The monoclonal antibody 755 recognizes an epitope located in the C-terminal 360 amino acids on the alpha chain of C3, thereby recognizing C3b and full C3. It does not cross react with Human C3a.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.

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Gene Name: complement component 3

Database Link: Entrez Gene 718 Human
P01024

Background: The complement system is an important factor in innate immunity. The third complement component, C3, is central to the classical, alternative and lectin pathways of complement activation. The synthesis of C3 is tissue-specific and is modulated in response to a variety of stimulatory agents. C3 is the most abundant protein of the complement system with serum protein levels of about 1.3 mg/ml. An inherited deficiency of C3 predisposes a person to frequent bacterial infections. C3 fragments are deposited in tissues at sites of antibody-mediated immunopathology. In ulcerative colitis and idiopathic chronic inflammatory bowel disease, the deposition of C3 in the diseased mucosa has been reported. After activation of the complement system, certain enzymes become active, resulting in the cleavage of C3 into C3b and the anaphylatoxin C3a. C3b becomes attached to immune complexes and is further cleaved into iC3b, C3c, C3dg and C3f. Within the alternative pathway of complement, C3b plays a critical role in the amplification loop initiated by spontaneous hydrolysis of C3.

Synonyms: CPAMD1, Complement component 3