

Product datasheet for **AM26224PU-N**

Complement C3 (C3) Mouse Monoclonal Antibody [Clone ID: bH6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	bH6
Applications:	ELISA, IHC
Recommended Dilution:	Immunohistochemistry on Frozen and Paraffin Sections: The typical starting working dilution is 1/50. Immunoassay (See 'Specificity').
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody is specific for a C3 neo-epitope expressed on the cleavage fragments of C3b, iC3b, and C3c, but not C3dg and C3f. Can be used for Immunoassays to detect and/or quantify C3 activation products in plasma, synovial fluid, and cerebrospinal fluid.
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
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	complement component 3
Database Link:	Entrez Gene 718 Human P01024



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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. Activation products of the complement cascade contain neo-epitopes that are not present in the individual native components. Monoclonal antibodies detecting neo-epitopes have been used for direct quantification of activation at different steps in the complement cascade.

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 the person to frequent assaults of bacterial infections. In ulcerative colitis, and idiopathic chronic inflammatory bowel disease, the deposition of C3 in the diseased mucosa has been reported.

Proteolysis by certain enzymes results in the cleavage of C3 into C3a and C3b. C3b becomes attached to immune complexes and is further cleaved into iC3b, C3c, C3dg and C3f.

Synonyms:

CPAMD1, Complement component 3