

Datasheet for ABIN2192052

## anti-C3 antibody



[Go to Product page](#)

### 2 Publications

#### Overview

Quantity:	100 µg
Target:	C3
Reactivity:	Human
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This C3 antibody is un-conjugated
Application:	Immunoprecipitation (IP), Immunoassay (IA)

#### Product Details

Clone:	3
Sterility:	0.2 µm filtered

#### Target Details

Target:	C3
Alternative Name:	c3d ( <a href="#">C3 Products</a> )
Background:	<p>The monoclonal antibody 3 (also known as YB2/39-11-1-7) reacts with a linear determinant in C3d. This 'D' antigen is found on C3, C3b, iC3b, C3dg and C3d. 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. The synthesis of C3 is tissue-specific and is modulated in response to a variety of</p>

## Target Details

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 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. Proteolysis by C3-convertases results in the cleavage of C3 into C3a and C3b. C3b becomes attached to immune complexes and is further cleaved into iC3b and C3f. iC3b is further processed into C3c and C3dg. C3dg can be cleaved into C3d and C3g, though this does not occur in plasma. The monoclonal antibody 3 recognizes C3, C3b, iC3b, C3dg and C3d. The monoclonal antibody does not recognize C3c. To distinguish C3 from C3b an anti-C3a antibody is necessary (HM2074).

Pathways: [Complement System](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#)

## Application Details

Application Notes: of monoclonal anti-C3 antibodies to characterise the fragments of C3 that are found on erythrocytes. Vox Sang 1983, 45: 367 4. Chaplin, H et al, Further studies of the C3g component of the alpha 2D fragment of human C3. Clin Exp Immunol 1983, 51: 639

Restrictions: For Research Use only

## Handling

Buffer: PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

Expiry Date: 12 months

## Publications

Product cited in: Lachmann, Pangburn, Oldroyd: "Breakdown of C3 after complement activation. Identification of a new fragment C3g, using monoclonal antibodies." in: **The Journal of experimental medicine**,

Vol. 156, Issue 1, pp. 205-16, (1982) ([PubMed](#)).

Lachmann, Oldroyd, Milstein, Wright: "Three rat monoclonal antibodies to human C3." in:

**Immunology**, Vol. 41, Issue 3, pp. 503-15, (1981) ([PubMed](#)).