

Datasheet for ABIN2192053

anti-GRF2 antibody**2** Publications[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	GRF2 (RAPGEF1)
Reactivity:	Human
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This GRF2 antibody is un-conjugated
Application:	Immunoprecipitation (IP), Immunoassay (IA)

Product Details

Clone:	9
Sterility:	0.2 µm filtered

Target Details

Target:	GRF2 (RAPGEF1)
Alternative Name:	c3g (RAPGEF1 Products)
Background:	<p>The monoclonal antibody 9 (also known as YB2/90-5-20) reacts with a neoantigen on iC3, iC3b, C3dg and C3g. C3g itself however is a small fragment probably not formed in vivo. 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</p>

Target Details

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 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 9 recognizes iC3b, C3dg and C3g in plasma. The monoclonal antibody does not recognize C3 or C3b.

Pathways: [Interferon-gamma Pathway](#), [Neurotrophin Signaling Pathway](#), [Platelet-derived growth Factor Receptor Signaling](#), [Signaling of Hepatocyte Growth Factor Receptor](#)

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 5. Mollnes, T et al, Activation of the third component of complement (C3) detected by a monoclonal anti-C3'g' neoantigen antibody in a one-step enzyme immunoassay. J Immunol Methods 1987, 101: 201

Restrictions: For Research Use only

Handling

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

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](#)).