OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP33065FC-N

Complement C3 (C3) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC
Recommended Dilution:	**ELISA.** **(In)direct immunofluorescence.** **Immunocytochemistry.** **Immunohistochemistry on Frozen Sections.** The fluorescent immunoconjugate to human C3c is used to determine the presence and pattern of C3 in tissue lesions using immunohistochemical staining techniques. Locally deposited immune complexes in tissue usually contain complement, pointing to activation of the classical pathway. Complement activation in vivo implies active disease and may contribute to the elicitation of the pathogenesis and he extent of tissue destruction. Sometimes the diagnosis can be based on directly on laboratory findings. This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal. *Recommended Working* Dilutions: 1/10-1/50.
Reactivity:	Human
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	C3c is isolated and purified from pooled normal Human serum. Freund's complete adjuvant is used in the first step of the immunization procedure.

View online »

Specificity:	In Immunoelectrophoresis against fresh human serum, a single precipitin line is obtained in the beta-1 region representing native C3. Against serum containing partly activated C3, a precipitin line is obtained which extends from the beta-1 into the alpha-2 region, demonstrating a gradient. In old serum containing totally activated C3 a single precipitin line in the alpha-2 region is obtained. Antisera to C3c cab also react with the fragments C3b, C3bi and smaller fragments, since they all carry antigenic determinants of the C3c domain. The product does not react with any other proteins component of human serum or plasma. **Cross-reactivity:** The antiserum does not cross-react with any other component of human plasma. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins since they frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.
Formulation:	PBS, pH 7.2 Label: FITC State: Lyophilized purified hyperimmune IgG fraction Stabilizer: None Preservative: None, as it may interfere with the antibody activity Label: Fluorescein isothiocyanate isomer 1 Absorption emission: 492 nm / 515 nm Molar radio: Fluorochrome/IgG protein ~1.1
Reconstitution Method:	Restore by adding 1 ml of sterile distilled water
Concentration:	lot specific
Purification:	The IgG fraction is isolated and purified from the antiserum and contains the bulk of the defined antibody specificity. It is free of other serum proteins as tested by immunoelectrophoresis and double radial immunodiffusion.
Conjugation:	FITC
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	complement component 3
Database Link:	Entrez Gene 24232 RatEntrez Gene 718 Human P01024
Background:	C3c is the major fragment resulting from C3 cleavage by C3 convertase and factor I. It is composed of an intact beta chain bound to two fragments of the alpha chain.
Synonyms:	CPAMD1, Complement component 3

Note:	**Adsorption**: Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies cross-reacting with other with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.