

Product datasheet for **AP21459FC-N**

Complement C3 (C3) Goat Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, IF, IHC

Recommended Dilution: **ELISA**
Immunocytochemistry / Immunofluorescence
Immunohistochemistry on frozen material

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 the extent of tissue destruction. Sometimes the diagnosis can be based 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: 1/20-1/80.

Reactivity: Human

Host: Goat

Isotype: IgG

Clonality: Polyclonal

Immunogen: C3c is isolated and purified from pooled normal human serum by precipitation techniques, followed by chromatographical methods.
Freund's complete adjuvant is used in the first step of the immunization.



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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 can 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. 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 without preservatives Label: FITC State: Lyophilized purified IgG fraction Label: Fluorescein Isothiocyanate Isomer 1 Absorption emission: 492 nm / 515 nm Molar ratio: Fluorescein/IgG ~1.7
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:	Can be shipped at ambient temperature. 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 718 Human P01024
Background:	C3c is the major fragment resulting from the 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
Protein Families:	Druggable Genome
Protein Pathways:	Complement and coagulation cascades, Systemic lupus erythematosus