

## Product datasheet for **AP21459BT-N**

### Complement C3 (C3) Goat Polyclonal Antibody

#### Product data:

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ELISA, ID, IF, IHC, IP, WB
<b>Recommended Dilution:</b>	<p>This Biotin immunoconjugate antibody 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. Suitable for use in ELISA and Western blotting to identify Human C3c in serum or other body fluids.</p> <p>As a second step an avidin or streptavidin conjugate of the user's choice has to be used. 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.</p> <p><i>Recommended Working Dilutions:</i> Histochemical and Cytochemical Use: 1/100-1/500. ELISA and comparable non-precipitating antibody-binding assays: 1/1,000-1/6,000.</p>
<b>Reactivity:</b>	Human
<b>Host:</b>	Goat
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	<p>C3c is isolated and purified from pooled normal human serum by precipitation techniques, followed by chromatographical methods.</p> <p>Freund's complete adjuvant is used in the first step of the immunization.</p>



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<b>Specificity:</b>	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.
<b>Formulation:</b>	PBS, pH 7.2 without preservatives Label: Biotin State: Lyophilized purified IgG fraction Molar ratio: Biotin/IgG ~7.1
<b>Reconstitution Method:</b>	Restore by adding 1 ml of sterile distilled water.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	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.
<b>Conjugation:</b>	Biotin
<b>Storage:</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	complement component 3
<b>Database Link:</b>	<a href="#">Entrez Gene 718 Human P01024</a>
<b>Background:</b>	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.
<b>Synonyms:</b>	CPAMD1, Complement component 3
<b>Note:</b>	<b>Adsorption:</b> Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other dog serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Complement and coagulation cascades, Systemic lupus erythematosus