

Product datasheet for **AP31080AF-N**

C3 Goat Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, ID, IF, IHC, IP

Recommended Dilution: This antibody can be used:

As unlabelled primary or secondary antibody reagent for the indirect detection of C3c in Mouse cells, tissues and body fluids in Immunofluorescence and Immunoenzyme methods. For the production of immunoconjugates with a selected marker.

To prepare insoluble Immunoaffinity adsorbents by coupling to an artificial carrier.

As catching or detection reagent in non-isotopic methodology and solid phase immunochemistry (e.g. ELISA). 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 on directly on laboratory findings.

When applied in any Cytochemical or Histochemical procedure or Solids phase coupling technique, the optimum concentration of the IgG preparation should always be established by titration.

Recommended Dilutions:

Histochemistry: 1/50-1/250

ELISA and comparable non-precipitating antibody-binding assays: 1/500-1/2,000.

Reactivity: Mouse

Host: Goat

Clonality: Polyclonal

Immunogen: C3c isolated and purified from pooled normal Mouse serum.

Freund's complete adjuvant is used in the first step of the immunization procedure.



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Specificity:	<p>In Immunoelectrophoresis against fresh Mouse serum, a single precipitin line is obtained in the beta-1 region representing native C3.</p> <p>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.</p> <p>The product does not react with any other protein components of Mouse serum or plasma.</p> <p>Cross-reactivity:</p> <p>The antiserum does not cross-react with any other component of Mouse 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.</p> <p>Precipitin titre: 1/16 when tested against pooled normal Mouse serum in agar-block immunodiffusion titration.</p>
Formulation:	<p>PBS, pH 7.2 without preservatives and foreign proteins</p> <p>State: Azide Free</p> <p>State: Lyophilized hyperimmune IgG fraction</p>
Reconstitution Method:	Restore by adding 1.0 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:	Unconjugated
Storage:	<p>Store the antibody lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer.</p> <p>If a slight precipitation occurs upon storage, this should be removed by centrifugation.</p>
Stability:	Shelf life: one year from despatch.
Gene Name:	complement component 3
Database Link:	P01026
Background:	<p>C3 is the most abundant complement protein in rat serum. Its biological function strongly resembles that of C3 in man and other laboratory animal species. It has a central role in the activation system being common to both pathways.</p> <p>Activation of C3 is achieved by very specific limited proteolysis resulting in the release of a number of degradation fragments. The anaphylotoxin C3a promotes smooth muscle contraction and increases vascular permeability; the large C3b fragment is involved in binding to the complement activator and can interact with specific receptors to allow efficient clearance of the activating cell or particle; degradation fragments of C3b (C3bi, C3c, C3dg, C3d) are important in receptor binding and clearance mechanisms, in virus neutralization and possibly in the immune response.</p>

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.