

Product datasheet for **AP31083AF-N**

C3 Goat Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | ELISA, ID, IF, IHC, IP |
| Recommended Dilution: | <p>This antibody can be used:</p> <p>As unlabelled primary or secondary antibody reagent for the indirect detection of C3c in Monkey cells, tissues and body fluids in Immunofluorescence and Immunoenzyme methods. For the production of immunoconjugates with a selected marker.</p> <p>To prepare insoluble Immunoaffinity adsorbents by coupling to an artificial carrier.</p> <p>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.</p> <p>Sometimes the diagnosis can be based on directly on laboratory findings.</p> <p>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.</p> <p><u>Recommended Dilutions:</u></p> <p>Histochemistry: 1/25-1/250</p> <p>ELISA and comparable non-precipitating antibody-binding assays: 1/50-1/500.</p> |
| Reactivity: | Monkey |
| Host: | Goat |
| Clonality: | Polyclonal |
| Immunogen: | <p>C3c isolated and purified from pooled normal Rhesus Monkey serum.</p> <p>Freund's complete adjuvant is used in the first step of the immunization procedure.</p> |



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| Specificity: | <p>In Immunoelectrophoresis against fresh Monkey 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 Monkey serum or plasma.</p> <p>Cross-reactivity: The antiserum does not cross-react with any other component of monkey plasma. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins since they frequently share antigenic determinants. In addition to a clear reactivity with C3c of other old-world monkeys (Cercopithecus, Cynomolgus and Baboon), this antiserum shows also a fair amount of cross-reactivity to C3c of other species, including chimpanzee and man.</p> <p>Precipitin titre: 1/8 when tested against pooled normal Monkey 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> |
| 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 lyophilized at 2-8°C for 6 month or at -20°C long term.</p> <p>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.</p> <p>Avoid repeated freezing and thawing.</p> |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | complement component 3 |
| Database Link: | Entrez Gene 24232 Rat P01026 |

Background:

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.

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 be 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.

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.