

Product datasheet for **AP21439SU-N**

C3 Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ID, IP
Recommended Dilution:	Immunoelectrophoresis: Use 2 μ l Rat plasma or equivalent against 120 μ l antiserum. Double Radial Immunodiffusion: Use a rosette arrangement with 10 μ l antiserum in 3 mm diameter center well and 2 μ l plasma samples (neat and serially diluted) in 2 mm diameter peripheral wells. Single Radial Immunodiffusion: Use 1% antiserum in the gel.
Reactivity:	Rat
Host:	Goat
Clonality:	Polyclonal
Immunogen:	C3c isolated and purified from pooled normal Rat serum by precipitation techniques, followed by Chromatographical methods. Freund's complete adjuvant is used in the first step of the immunization procedure.



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Specificity:	<p>In Immunoelectrophoresis against fresh Rat 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 Rat serum or plasma.</p> <p>Cross-reactivity:</p> <p>The antiserum does not cross-react with any other component of Rat 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>Adsorption:</p> <p>Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies cross-reacting with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.</p> <p>Precipitin titre: 1/16 when tested against pooled normal rat serum in agar-block immunodiffusion titration.</p>
Formulation:	<p>State: Serum</p> <p>State: Lyophilized (Delipidated, heat inactivated) stable whole serum without preservatives.</p>
Reconstitution Method:	Restore by adding 1.0 ml of sterile distilled water
Concentration:	Total protein and IgG concentrations in the antiserum are comparable to those of normal pooled goat serum. No foreign proteins added.
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:	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