

Product datasheet for **AP21461SU-N**

Complement C4A (C4A) Goat Polyclonal Antibody

Product data:

| | |
|-------------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | ID, IP |
| Recommended Dilution: | Can be used in precipitating techniques as Immuneoelectrophoresis and single and Double Radial Immunodiffusion to identify the presence of complement C4 C4 containing complexes in Human plasma or other body fluids or to determine its concentration. The presence of non precipitating antibodies has not been assayed. This does not exclude the use of the antiserum in more sensitive non-precipitating antibodybinding techniques if proper controls are included. <u>Antibody Titre:</u> Precipitin titre 1/32 when tested against in agar-block immunodiffusion titration. |
| Reactivity: | Human |
| Host: | Goat |
| Clonality: | Polyclonal |
| Immunogen: | The C4 protein is isolated as a homogenous protein for use in antiserum production. Freund's complete adjuvant is used in the first step of the immunization procedure. |
| Specificity: | The reactivity of the antiserum is restricted to C4. In Immuneoelectrophoresis and radial immunodiffusion (Ouchterlony), using various antiserum concentrations against fresh normal human plasma a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified C4 protein. Activated C4b may also react with the antiserum. No reaction is obtained with any other plasma protein component or serum. The antiserum does not cross react with any other component of human 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: | State: Serum State: Lyophilized, Delipidated, Heat inactivated, Stable Whole Serum without preservatives |
| Reconstitution Method: | Restore by adding 1 ml of sterile distilled water. |
| Concentration: | Total protein and IgG concentrations in the antiserum are comparable to those of normal goat serum. No foreign proteins added. |



[View online »](#)

| | |
|--------------------------|---|
| Conjugation: | Unconjugated |
| Storage: | Store lyophilized at 2-8°C and reconstituted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid Repeated thawing and freezing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | complement component 4A (Rodgers blood group) |
| Database Link: | Entrez Gene 720 Human P0COL4 |
| Background: | C4 and C2 represent substrates for activated C1. Both components are present in serum in an inert form. C4 is composed of 3 polypeptide chains of three different types, alpha, beta, gamma. One of the chains is cleaved by the action of activated C1, resulting in activation of C4 exposing an binding site for the next component in the sequence, C2. C4 has a molecular weight of 205,000 and is present in plasma in an average concentration of 600 µg/ml. The activation of C4 yields two peptide fragments: C4a (MW 8,000) and C4b (MW 198,000). This process shows a considerable degree of similarity to the activation of the components C3 and C5. |
| Synonyms: | Complement component 4, CPAMD2, CPAMD3, Acidic complement C4, Basic complement C4 |
| Note: | Adsorption: 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. |
| Protein Pathways: | Complement and coagulation cascades, Systemic lupus erythematosus |