

Product datasheet for **AP31518SU-N**

C2 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ID, IP

Recommended Dilution: Can be used in precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of C2 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 non-precipitating antibody-binding techniques if proper controls are included.

Directions for use:

In immunoelectrophoresis in agarose-plates use 2 µl human plasma or equivalent against 120 µl antiserum.

In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter center well and 2 µl plasma samples (neat and serially diluted) in 2 mm diameter peripheral wells.

Reactivity: Human

Host: Rabbit

Clonality: Polyclonal

Immunogen: The C2 component of human complement is a single-chain polypeptide with a molecular weight of 110,000. It is present in plasma in an average concentration of 25 µg/ml. The activated form of C2 combines with the activated C4 to form a complex with C3-convertase activity in the classical pathway of complement activation. C2 is isolated as a homogenous protein for use in the 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 native and activated C2. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against human plasma a single precipitin line is obtained and shows a reaction of full identity with the purified immunogen.

Cross-reactivity. The antiserum does not cross-react with any other human plasma proteins as tested in gel diffusion techniques. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.



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Formulation:	No preservative added - No foreign proteins added. State: Serum State: Delipidated, heat inactivated, lyophilized, stable IgG fraction
Reconstitution Method:	Restore with 1 ml sterile distilled water.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	complement component 2
Database Link:	Entrez Gene 717 Human P06681
Synonyms:	C2, C3/C5 convertase
Note:	<i>Adsorption:</i> Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other human serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades, Systemic lupus erythematosus