

AP31521SU-N**Polyclonal Antibody to Complement C3c - Serum**

Alternate names:	CPAMD1, Complement component 3
Quantity:	1 ml
Uniprot ID:	P01026
NCBI:	NP_000054
GeneID:	24232
Host:	Rabbit
Immunogen:	C3c is the major fragment resulting from the C3 cleavage by C3 convertase and factor i. It is composed of an intact beta chain bound to two fragments of the alpha chain. The protein is isolated and purified from pooled normal human serum by precipitation techniques, followed by chromatographical methods. Freund's complete adjuvant is used in the first step of the immunization procedure.
Format:	State: Delipidated, heat inactivated, lyophilized, stable whole serum. Buffer System: No preservative added. - No foreign proteins added. Reconstitution: Restore with 1 ml sterile distilled water.
Applications:	Can be used in precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of complement C3c 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. Determinations of individual complement components can be very useful in defining the exact location of a defect. Also suitable for Immunohistochemistry on Paraffin Sections. <u>Directions for use:</u> In immunoelectrophoresis 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. In single radial immunodiffusion use 1 percent antiserum in the gel. Immunohistochemistry on Paraffin Sections: 1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

In immunoelectrophoresis against fresh human serum, a single precipitin line is obtained in the beta-1 region representing native C3. 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. The product does not react with any other proteins component of human serum or plasma.

Cross-reactivity: Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins, since homologous proteins of different species frequently share antigenic determinants. Crossreactivity of this antiserum has not been tested in detail.

Species: Human.

Other species not tested.

Add. Information:

Adsorption: 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.

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.

Shelf life: one year from despatch.