Description	**Precipitating polyclonal rabbit antiserum to the C1q subunit of C1 component of human complement**
Product code	RAHu/C1q
Biological origin	Rabbit
Physical form	Delipidated, heat inactivated, lyophilized, stable whole antiserum
Preservative	No preservative added.
Immunogen	C1 component of human complement is a complex of three glycoproteins: C1q, C1r and C1s. C1q has a molecular weight of 492.000 and is present in plasma in an average concentration of 80 μg/ml. It consists of a complex of 18 polypeptide chains of three different types, A, B and C; 6 of each type. The subcomponent C1q is responsible for the binding of C1q to immuno-complexes an membranes via the Fc portion of the immunoglobulin. The subunit C1q 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.
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
Identity & Specificity	The reactivity of the antiserum is restricted to C1q. In immunoelectrophoresis 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 C1q protein. Complexes containing C1q may also react with the antiserum. No reaction is obtained with C1r, C1s or any other plasma protein component or serum.
Cross-reactivity	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.
Protein concentration	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal rabbit serum. No foreign proteins added.
Antibody titre	Precipitin titre 1:32 when tested against in agar-block immunodiffusion titration against an appropriate reference.
Intended use	In precipitating techniques as immunoelectrophoresis and single or double radial immuno-diffusion to identify the presence of C1q or C1q 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 antibody-binding techniques if proper controls are included.
Directions for use	The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.
Packing	Vial with 1 ml lyophilized antiserum.
Storage / shelf life	Lyophilized at +4°C — at least 10 years reconstituted at or below -20°C — 3-5 years reconstituted at +4°C — 7 days
Caution	This antiserum should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For *in vitro* research purposes only.

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