Description	**Precipitating polyclonal rabbit antiserum to human C2 component of complement**
Product code	RAHu/C2
Biological origin	Rabbit
Physical form	Delipidated, heat inactivated, lyophilized, stable IgG fraction.
Preservative	No preservative added
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.
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.
Identity & 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.
Protein concentration	The IgG concentration is 4 mg/ml in PBS-EDTA. No foreign proteins added.
Antibody titre	Precipitin titre not less than 1:32 when tested against appropriate concentrations of purified C2 protein in agar-block immunodiffusion titration.
Intended use	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.
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
Handling	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.
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.

NORDIC IMMUNOLOGICAL LABORATORIES
Langendijk 25, 5652 AX Eindhoven, The Netherlands
Tel. +31 630 070 625, Fax: +31 402 920 069
E-mail: info@nordiclabs.nl
www.nordiclabs.nl

© Nordic Immunological Laboratories 2003