

Description	Precipitating polyclonal goat antiserum to the C5 component of human complement						
Product code	GAHu/C5						
Biological origin	Goat						
Physical form	Delipidated, heat inactivated, lyophilized, stable whole antiserum						
Preservative	No preservative added.						
Immunogen	<p>C5 component of human complement is a plasma protein consisting of two polypeptide chains, α, β, bound by disulphide bonds. It has a molecular weight of 190,000. The activated protein forms with the complement factors C6-C9 the membrane attack complex. The average concentration in plasma is about 70 $\mu\text{g/ml}$.</p> <p>The C5 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.</p>						
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 C5. 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 C5 protein. No reaction is obtained with 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 goat serum. No foreign proteins added.						
Antibody titre	Precipitin titre 1:32 when tested against in agar-block immunodiffusion titration against human serum						
Intended use	In precipitating techniques as immunoelectrophoresis and single or double radial immunodiffusion to identify the presence of C5 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	In immunoelectrophoresis use 2 μl or equivalent against 120 μl antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 μl in a 3 mm diameter center well and 2 μl serum samples (neat and serially diluted) in 2 mm diameter peripheral wells.						
Handling	<p>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.</p> <p>Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.</p>						
Packing	Vial with 1 ml lyophilized antiserum.						
Storage / shelf life	<table><tr><td>Lyophilized at +4°C</td><td>at least 10 years</td></tr><tr><td>reconstituted at or below -20°C</td><td>3-5 years</td></tr><tr><td>reconstituted at +4°C</td><td>7 days</td></tr></table>	Lyophilized at +4°C	at least 10 years	reconstituted at or below -20°C	3-5 years	reconstituted at +4°C	7 days
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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 <i>in vitro</i> 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