

<b>Description</b>	<b>Precipitating polyclonal goat antiserum to rat IgG, heavy and light chains</b>	
<b>Product code</b>	GARa/IgG(H+L)	
<b>Biological origin</b>	Goat	
<b>Physical form</b>	Delipidated, heat inactivated lyophilized stable whole serum	
<b>Preservative</b>	No preservative added, as it may interfere with the antibody activity. No foreign protein added.	
<b>Immunogen</b>	Purified normal IgG, including all known subclasses, isolated from pooled rat serum. Freund's complete adjuvant is used in the first step of the immunization procedure.	
<b>Adsorption</b>	No adsorption required.	
<b>Identity &amp; Specificity</b>	The reactivity of the antiserum is directed to the Fc and Fab subunits of the IgG molecule. It includes a certain degree of reactivity with other immunoglobulins via the common Fab portion. It does not react with any non-Ig protein in rat serum, as tested by immunoelectrophoresis and double radial immunodiffusion.	
<b>Cross-reactivity</b>	Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since Ig of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has been tested in double radial immunodiffusion with the following results: bovine -            dog -            horse -            monkey -            sheep - cat -            guinea pig ±            human -            pigeon -            swine - chicken -            hamster -            mouse -            rabbit -            turkey -	
<b>Protein concentration</b>	Total protein and IgG concentration in the antiserum are comparable to those of pooled goat serum. No foreign proteins added.	
<b>Antibody titre</b>	Precipitin titre not less than 1:64 when tested against normal rat serum in agar block titration.	
<b>Intended use</b>	In immunoelectrophoresis and double radial immunodiffusion to identify the presence of IgG; as secondary antibody to precipitate the immunoglobulin in normal rat serum; to prepare an immunoabsorbent for the production of Ig-free rat serum, plasma or non-Ig preparations. This antiserum is not intended for use in non-precipitating antibody-binding or other highly sensitive assays. For such uses labelled and unlabelled cytochemical and immunoassay reagents meeting the necessary additional specificity and performance requirements are available.	
<b>Directions for use</b>	In immunoelectrophoresis use 2 µl or equivalent against 120 µl antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 µl antiserum in a 3 mm diameter centre well and 2 µl serum samples (neat and diluted) in 2 mm diameter peripheral wells.	
<b>Handling</b>	The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. It is reconstituted by adding 1 ml sterile distilled water. Working dilutions are prepared by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the product.	
<b>Packing</b>	Vial with 1 ml lyophilized antiserum.	
<b>Storage / shelf life</b>	Lyophilized at +4°C	at least 10 years
	reconstituted at or below -20°C	3-5 years
	reconstituted at +4°C	7 days
<b>Caution</b>	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> laboratory 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