

<b>Description</b>	<b>Precipitating polyclonal rabbit antiserum to rat IgG, heavy and light chains</b>	
<b>Product code</b>	RARa/IgG(H+L)	
<b>Biological origin</b>	Rabbit	
<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 ±      goat ±      horse ±      monkey ±      swine ± cat -          duck -      guinea pig +      human ±      pigeon -      turkey - chicken -      ferret +      hamster +      mouse +      sheep -	
<b>Protein concentration</b>	Total protein and IgG concentration in the antiserum are comparable to those of pooled rabbit serum. No foreign proteins added.	
<b>Antibody titre</b>	Precipitin titre not less than 1:128 when tested against normal rat serum in agar block titration.	
<b>Intended use</b>	In precipitating techniques as immunoelectrophoresis, single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of IgG and to determine its concentration. This antiserum is not intended for use in non-precipitating antibody-binding or other highly sensitive assays. For such use labelled and unlabelled cytochemical and immunoassay grade 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 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.	

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