Description	**Precipitating polyclonal goat antiserum to human IgG, heavy and light chains**
Product code	GAHu/IgG(H+L)
Biological origin	Goat
Physical form	Delipidated, heat inactivated lyophilized stable whole serum
Preservative	No preservative added, as it may interfere with the antibody activity. No foreign protein added.
Immunogen	Purified normal IgG isolated from pooled human serum. Freund's complete adjuvant is used in the first step of the immunization procedure.
Adsorption	No adsorption required.
Identity & Specificity	The reactivity of the antiserum is directed to the Fc and Fab subunits of IgG. It includes a certain degree of reactivity with other immunoglobulins via the common Fab portion. In immunoelectrophoresis against human serum a single characteristic precipitin line with a spur is usually obtained. It does not react with any non-Ig protein in human serum, as tested by immunoelectrophoresis and double radial immunodiffusion.
Cross-reactivity	Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since Ig of different species frequently share antigenic determinants. This antiserum has been tested for cross-reactivity in double radial immunodiffusion with the following results:

bovine -	dog +	horse ±	pigeon -	sheep -
cat +	guinea pig +	monkey ++	rabbit +	swine +
chicken -	hamster ±	mouse ±	rat +	turkey -

Protein concentration	Total protein and IgG concentration in the antiserum are comparable to those of pooled goat serum. No foreign proteins added.
Antibody titre	Precipitin titre not less than 1:64 when tested against normal human serum in agar block titration.
Intended use	In immunoelectrophoresis and double radial immunodiffusion to identify the presence of IgG; as secondary antibody to precipitate the immunoglobulin in normal human serum; to prepare an immunoadsorbent for the production of Ig-free human 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.
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 antiserum in a 3 mm diameter centre well and 2 µl serum samples (neat and diluted) in 2 mm diameter peripheral wells.
Handling	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.
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* laboratory research purposes only.

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