Description	**Specificity Reference Reagent** **Purified IgG fraction of polyclonal goat antiserum to human IgG, Fc specific**
Product code	SR/GAHu/IgG(Fc)/7S
Biological origin	Goat
Physical form	Purified hyperimmune goat IgG lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2).
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.
Purification	Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG fraction by DEAE-chromatography.
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required to eliminate antibodies reacting with other components of the immunoglobulin system or reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of foreign protein or immune complexes in the antiserum.
Identity & Specificity	The reactivity of the antiserum is directed to the Fc subunit of the IgG molecule including all subclasses. In immunoelectrophoresis and double radial immunodiffusion, using various anti-serum concentrations against normal human plasma and serum, a characteristic precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified IgG. No reaction is obtained with purified IgA, IgM and IgG/Fab fragments or any other serum protein.
Cross-reactivity	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 not been tested in detail, however in immunoelectrophoresis a reaction with Rhesus monkey, Cynomolgus and Baboon has been found.
Physicochemical characteristics	IgG protein concentration 10 mg/ml. 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	As unlabelled primary or secondary reagent for indirect detection techniques, to prepare conjugates with markers of the user's own choice, to prepare an insoluble immunoaffinity adsorbent or a solid phase antibody reagent by coupling to an artificial carrier and as catching or detection antibody in non-isotopic methodology and solid phase immunochemistry. *When applied in any cytochemical or histochemical procedure or solids phase coupling technique, the optimum concentration of the IgG preparation should always be established by titration.* Typical working dilutions in histochemistry are usually between 1:100 and 1:250; in ELISA and comparable non-precipitating antibody-binding assays between 1:500 and 1:5,000.
Handling	The lyophilized IgG fraction 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, spun down to remove insoluble particles, divided into small aliquots, frozen and stored at or below -20°C. Prior to use, an aliquot is thawed slowly at ambient temperature, spun down again and used to prepare working dilutions 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 10 mg lyophilized purified hyperimmune IgG.
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 product 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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