Description	**Purified IgG fraction of polyclonal goat antiserum to human immunoglobulins IgG, IgA, IgM and IgD, heavy and light chains**
Product code	GAHu/Ig(GAMD)/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.
Immunogen	Highly purified IgG, and pools of homogenous IgA, IgM and IgD isolated from 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 (7S) fraction by DEAE-chromatography.
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required to eliminate antibodies cross-reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
Identity & Specificity	The defined antibody specificity is directed to the major isotypes of the human immunoglobulin system (classes and both light chain types) including antibody to common determinants and to class specific determinants and to the surface determinants of the common Fab portion as tested against as tested in immunoelectrophoresis and double radial immunodiffusion (Ouchterlony). In immuno-electrophoresis and double radial immunodiffusion using various antiserum concentrations against normal human plasma and serum, the characteristic IgG, IgA, IgM and IgD (if present in precipitable amounts) precipitin lines are obtained.
Cross-reactivity	Inter-species cross-reactivity is a normal feature of antibodies to mammalian immunoglobulins, since homologous proteins of different species frequently share antigenic determinants. The degree of cross-reactivity is also dependent on the concentrations of the reactants and the sensitivity of the assay arrangement. This antiserum fraction has not been tested for cross-reactivity.
Physicochemical characteristic	IgG protein concentration 10 mg/ml. No foreign proteins added.
Intended use	The cytochemical grade of GAHu/Ig(GAMD)/7S allows its use in different types of highly sensitive immunoassays on appropriately treated cell and tissue substrates; in radioimmunoassay; for the production of immunoconjugates with a selected marker; to prepare immunoaffinity adsorbents by coupling to an artificial carrier; in non-isotopic methodology based on solid phase immunochemistry (e.g. ELISA), both as catching antibody and detection reagent; in Western blotting. *This product is not pre-diluted. The optimum working dilution of each product should be established by titration before being used.* Working dilutions for histochemical and cytochemical use are usually between 1:100 and 1:250; in ELISA and comparable non-precipitating antibody-binding assays are between 1:1,000 and 1:5,000.
Handling	The lyophilized product 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 IgG (7S) fraction.
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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