Description	**Ig fraction of polyclonal goat antiserum to human immunoglobulin IgG, Fc specific**
Product code	GAHu/IgG(Fc)/IFix
Biological origin	Goat
Physical form	Goat Ig 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 polyclonal IgG 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 reactivity of the antiserum is directed to the Fc subunit of the IgG molecule which expresses strict isotypic (class) specificity. 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 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.
Antibody titre	Precipitin titre not less than 1:256 when tested against normal human serum in agar immunodiffusion block titration.
Intended use	This antiserum is intended to detect and identify IgG in serum or other body fluids using the immunofixation technique. Like immunoelectrophoresis immunofixation is essentially a two step technique. Proteins in a complex mixture are separated by electrophoresis in a gel carrier, followed by immunoprecipitation in situ with the antiserum. Non-precipitated proteins are removed by washing and the precipitated complex is revealed with a protein stain which allows its exact localization. Immunofixation may be the method of choice whenever a high level of sensitivity is required to identify a minor protein component against a high background of other proteins. It enables the detection and identification of more than one paraproteins in serum or of free light chain. The detection limit is approximately 0.5 to 1 mg/ml in the presence of normal levels of immunoglobulins. *This product is not pre-diluted. The optimum working dilution of each product should be established by titration before being used.*
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 1 ml lyophilized Ig 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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