Description **Fluorescein isothiocyanate–conjugated IgG fraction of polyclonal goat antiserum to rabbit IgG, heavy and light chains**

Product code GAR/IgG(H+L)/FITC

Biological origin Goat

Physical form FITC-coupled purified hyperimmune goat IgG lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2).

Preservative No preservative added.

Immunogen Purified normal IgG isolated from pooled rabbit 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 No adsorption required.

Identity & Specificity 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 rabbit 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. Cross-reactivity of this conjugate has been tested in double radial immunodiffusion with the following results:

bovine -	goat -	mouse ±	sheep -
chicken -	guinea pig ±	monkey ±	swine ±
dog ±	horse ±	rat ±	

Physicochemical characteristics IgG protein concentration 10 mg/ml. Fluorochrome/IgG protein molar ratio (F/P) is approximately 1.7. No foreign proteins added.

Fluorescent marker Fluorescein isothiocyanate isomer 1. Excitation: 492 nm, emission: 515 nm.

Conjugation procedure A proprietary technique for the binding to FITC is used, followed by several purification steps to remove free reactants and protein aggregates. After each step activity and specificity are tested in a variety of techniques. The conjugate is lyophilized to assure stability and long shelf life.

Intended use To identify and measure IgG, antigen or antibody, at the cellular and subcellular level by immunofluorescence staining of appropriately treated cell and tissue substrates, and to demonstrate circulating antibodies in serodiagnostic microbiology and autoimmune diseases; to identify a specific antigen or immune complex using a reference antibody of rabbit origin in the middle layer of the indirect test procedure.
This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal.
Working dilutions are usually between 1:20 and 1:80.

Handling The lyophilized conjugate is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. It is reconstituted by adding 2 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 in the dark 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 immunoconjugate.

Packing Vial with 2 ml lyophilized immunoconjugate.

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 immunoconjugate 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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