Description	**Fluorescein isothiocyanate-conjugated IgG fraction of polyclonal guinea pig antiserum to swine insulin**
Product code	GpASw/Ins/FITC
Biological origin	Guinea pig
Physical form	Purified hyperimmune guinea pig 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	Insulin is a hormone produced by the beta cells of the islets of Langerhans in the pancreas. It plays an important role in the metabolism of carbohydrate by its effects on the storage of glycogen in the liver, the conversion of carbohydrate to fat, and the oxidation of glucose by the peripheral tissues. Insulin has a molecular weight of 6,000 and contains two peptide chains linked by two disulphide bonds. The hormone is isolated from porcine pancreas. 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 insulin as tested by ELISA and immunoblotting. No reaction was obtained with other swine serum proteins.
Cross-reactivity	Inter-species cross-reactivity is a normal feature of antibodies to mammalian proteins, 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 characteristics	IgG protein concentration 10 mg/ml. Fluorochrome/IgG protein molar ratio (F/P) approximately 2.7. 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	The immunoconjugate is intended for use in different types of highly sensitive fluorescence immunoassays on appropriately treated cell and tissue substrates. *This product is not pre-diluted. The optimum working dilution of each product should be established by titration before being used.* Working dilutions are usually between 1:10 and 1:40.
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 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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