

Description	Fluorescein isothiocyanate-conjugated IgG fraction of polyclonal goat antiserum to human properdin	
Product code	GAHu/PPD/FITC	
Biological origin	Goat	
Physical form	Fluorochrome-coupled purified hyperimmune 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	Properdin is a factor of the alternative complement activation pathway. It has a molecular weight of 222,000 and consists of four peptide chains. Properdin is stabilizing the C3 convertase C3bBb. The mean concentration in plasma is 20 mg/ml. The antigen has been isolated from pooled human plasma. Freund's complete adjuvant is used in the first step of the immunization procedure.	
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other human serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.	
Purification	Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt precipitation and purification of the IgG fraction by DEAE-chromatography.	
Identity & Specificity	In immunoelectrophoresis against human serum a single precipitin line is obtained. The antiserum does not react with any other protein component of human serum or plasma.	
Cross-reactivity	The antiserum does not cross-react with any other human plasma proteins as tested in gel-diffusion techniques. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.	
Physicochemical characteristics	IgG protein concentration 8.0 mg/ml. Fluorescein/IgG protein molar ratio (F/P) approximately 1.4. No foreign proteins added.	
Fluorescent marker	Fluorescein isothiocyanate isomer 1 (FITC). 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	As reagent for the direct detection of properdin in human cells, tissues and body fluids in immunofluorescence; as detection reagent in non-isotopic methodology and solid phase immunochemistry (e.g. ELISA). <i>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.</i> Working dilutions are usually between 1:10 and 1:60.	
Directions for use	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 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 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 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 <i>in vitro</i> research purposes only.	

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