

Description	Fluorescein isothiocyanate-conjugated IgG fraction of polyclonal goat antiserum to C1q fragment of human complement	
Product code	GAHu/C1q/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	C1 component of human complement is a complex of three glycoproteins: C1q, C1r and C1s. C1q has a molecular weight of 492.000 and is present in plasma in an average concentration of 80 µg/ml. It consists of a complex of 18 polypeptide chains of three different types, A, B and C; 6 of each type. The subcomponent C1q is responsible for the binding of C1q to immuno-complexes an membranes via the Fc portion of the immunoglobulin. The subunit C1q is isolated as a homogenous protein for use in antiserum production. Freund's complete adjuvant is used in the first step of the immunization procedure.	
Purification	The IgG (7S) fraction is isolated and purified from the antiserum and contains the bulk of the defined antibody specificity. It is free of other serum proteins as tested by immunoelectrophoresis and double radial immunodiffusion.	
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies cross-reacting with other with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.	
Identity & Specificity	Tested in immunoelectrophoresis and double radial immunodiffusion against normal human serum, a single precipitin line is obtained which gives a reaction of full identity with the isolated immunogen. The product does not react with any other proteins component of human serum or plasma.	
Cross-reactivity	The antiserum does not cross-react with any other component of human plasma. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins since they frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.	
Physicochemical characteristics	IgG protein concentration 10.8 mg/ml. Fluorescein/IgG protein molar ratio (F/P) approximately 1.8. No foreign proteins added.	
Fluorescent marker	Fluorescein isothiocyanate isomer 1 (FITC). Excitation: 492 nm, emission: 515 nm.	
Intended use	To identify C1q and C1q containing complexes at the cellular level by immunofluorescence staining of appropriately treated cell and tissue substrates. Determinations of individual C components can be very useful in defining the exact location of a defect. <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 1:20 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 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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