

Description	Fluorescein isothiocyanate-conjugated IgG fraction of polyclonal swine antiserum to human IgG, Fc specific																		
Product code	SwAHu/IgG(Fc)/FITC																		
Biological origin	Swine																		
Physical form	FITC-coupled purified hyperimmune swine 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	Purified normal IgG isolated from pooled 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 fraction by DEAE-chromatography.																		
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required to eliminate antibodies reacting with other components of the immunoglobulin system or reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of foreign protein or immune complexes in the antiserum.																		
Identity & Specificity	The reactivity of the antiserum is directed to the Fc subunit of the IgG molecule. In immunoelectrophoresis and double radial immunodiffusion, using various antiserum concentrations against normal human plasma and serum, a single characteristic precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified IgG. No reaction is obtained with purified IgA, IgM and IgG/Fab fragments.																		
Cross-reactivity	<p>Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since IgG of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has been tested in double radial immunodiffusion with the following results:</p> <table border="0"> <tr> <td>bovine -</td> <td>duck -</td> <td>horse -</td> <td>rabbit ±</td> </tr> <tr> <td>cat -</td> <td>goat -</td> <td>monkey +</td> <td>rat -</td> </tr> <tr> <td>chicken -</td> <td>guinea pig ±</td> <td>mouse -</td> <td>sheep -</td> </tr> <tr> <td>dog ±</td> <td>hamster ±</td> <td>pigeon -</td> <td>turkey -</td> </tr> </table> <p>A negative cross-reaction in double radial immunodiffusion does not exclude some reaction in more sensitive techniques. In ELISA a faint reaction with dog and rat has been observed.</p>			bovine -	duck -	horse -	rabbit ±	cat -	goat -	monkey +	rat -	chicken -	guinea pig ±	mouse -	sheep -	dog ±	hamster ±	pigeon -	turkey -
bovine -	duck -	horse -	rabbit ±																
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dog ±	hamster ±	pigeon -	turkey -																
Physicochemical characteristics	IgG protein concentration 7.7 mg/ml. Fluorochrome/IgG protein molar ratio (F/P) is approximately 3.6. 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	<p>In direct staining of cytoplasmic IgG in fixed human cells and tissue substrates; to identify circulating IgG antibodies in serodiagnostic microbiology and autoimmune diseases; to identify a specific antigen or immune complex using a reference antibody of human in the middle layer of the test procedure.</p> <p><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></p> <p>Working dilutions are usually between 1:20 and 1:80.</p>																		
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> laboratory research purposes only.																		

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