

Description	Fluorescein isothiocyanate-conjugated IgG fraction of polyclonal rabbit antiserum to bovine albumin																		
Product code	RAB/Alb/FITC																		
Biological origin	Rabbit																		
Physical form	Purified hyperimmune rabbit 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	Albumin is a stable small polypeptide with a strong antigenicity. Its molecular weight is about 69,000. It has a high mobility in electrophoresis, shows macro-heterogeneity especially under pathological conditions and it can bind a large number of physiological and non-physiological molecules. Albumin is isolated from bovine serum by sequential precipitation and purified by ion exchange chromatography and affinity chromatography. 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 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 defined antibody specificity is directed to albumin as tested against bovine sera. In immunoelectrophoresis and double radial immunodiffusion (Ouchterlony), using various antiserum concentrations against appropriate concentrations of the immunogen, a single characteristic precipitin line is obtained which shows a reaction of identity with the precipitin lines obtained against bovine serum and the purified albumin.																		
Cross-reactivity	<p>Inter-species cross-reactivity is a normal feature of antibodies to mammalian serum 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 has been tested in double radial immunodiffusion with the following results:</p> <table border="0" style="margin-left: 40px;"> <tr> <td>cat -</td> <td>goat ++</td> <td>human +</td> <td>rabbit -</td> </tr> <tr> <td>chicken -</td> <td>guinea pig ++</td> <td>monkey +</td> <td>rat ±</td> </tr> <tr> <td>dog +</td> <td>hamster +</td> <td>mouse ++</td> <td>sheep -</td> </tr> <tr> <td>duck -</td> <td>horse +</td> <td>pigeon -</td> <td>swine +</td> </tr> </table> <p>A negative cross-reaction in double radial immunodiffusion does not exclude some reaction in more sensitive techniques.</p>			cat -	goat ++	human +	rabbit -	chicken -	guinea pig ++	monkey +	rat ±	dog +	hamster +	mouse ++	sheep -	duck -	horse +	pigeon -	swine +
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Physicochemical characteristics	IgG protein concentration 10 mg/ml. Fluorescein/IgG protein molar ratio (F/P) is approximately 1.4. 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>As reagent for the direct detection of albumin in bovine cells, tissues and body fluids in immunofluorescence techniques.</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 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 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 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 <i>in vitro</i> laboratory research purposes only.																		

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