

<b>Description</b>	<b>Fluorescein isothiocyanate-conjugated IgG fraction of polyclonal goat antiserum to rat IgM, Fc specific</b>	
<b>Product code</b>	GARa/IgM(Fc)/FITC	
<b>Biological origin</b>	Goat	
<b>Physical form</b>	FITC-coupled purified hyperimmune goat IgG lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2).	
<b>Preservative</b>	No preservative added, as it may interfere with the antibody activity.	
<b>Immunogen</b>	Purified homogenous IgM isolated from pooled rat serum. Freund's complete adjuvant is used in the first step of the immunization procedure.	
<b>Purification</b>	Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG fraction by DEAE-chromatography.	
<b>Adsorption</b>	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.	
<b>Identity &amp; Specificity</b>	The reactivity of the antiserum is directed to the Fc subunit of the IgM molecule. In immunoelectrophoresis and double radial immunodiffusion, using various antiserum concentrations against normal rat plasma and serum, a single characteristic precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified IgM. No reaction is obtained with purified IgA, IgG and IgG/Fab fragments.	
<b>Cross-reactivity</b>	Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since Ig of different species frequently share antigenic determinants. Cross-reactivity of this conjugate has not been tested in detail, however in double radial immunodiffusion a reaction with mouse as been observed.	
<b>Physicochemical characteristics</b>	IgG protein concentration 10 mg/ml. Fluorochrome/IgG protein molar ratio (F/P) is approximately 1.7. No foreign proteins added.	
<b>Fluorescent marker</b>	Fluorescein isothiocyanate isomer 1. Excitation: 492 nm, emission: 515 nm.	
<b>Conjugation procedure</b>	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.	
<b>Intended use</b>	In direct staining of cytoplasmic IgM in fixed rat cells and tissue substrates; to identify circulating IgM antibodies in serodiagnostic microbiology and autoimmune diseases; to identify a specific antigen or immune complex using a reference antibody of rat in the middle layer of the test procedure. <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.	
<b>Handling</b>	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.	
<b>Packing</b>	Vial with 1 ml lyophilized immunoconjugate.	
<b>Storage / shelf life</b>	Lyophilized at +4°C	at least 10 years
	reconstituted at or below -20°C	3-5 years
	reconstituted at +4°C	7 days
<b>Caution</b>	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.	

### NORDIC IMMUNOLOGICAL LABORATORIES

Langendijk 25, 5652 AX Eindhoven, The Netherlands

Tel. +31 630 070 625, Fax: +31 402 920 069

E-mail: [info@nordiclabs.nl](mailto:info@nordiclabs.nl)

[www.nordiclabs.nl](http://www.nordiclabs.nl)