

Description	Purified IgG fraction of polyclonal rabbit antiserum to mouse IgG1, subclass specific	
Product code	RAM/IgG1/7S	
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	Pools of highly purified homogenous IgG1 isolated from mouse 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 cross-reacting with other components of the immunoglobulin system or reacting with other serum proteins. Special attention is given to the elimination of antibodies to the common Ig/Fab portion. 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 IgG1 as tested against mouse sera and a panel of purified homogenous immunoglobulins and at the level of sensitivity of direct immunofluorescence staining methods applied to lymphoid cells with the FITC conjugated form of this product. In immunoelectrophoresis and radial immunodiffusion, 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 mouse serum and the purified monoclonal IgG1.	
Cross-reactivity	Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since immunoglobulins of different species frequently share antigenic determinants. Cross-reactivity of this product has not been tested in detail.	
Physicochemical characteristics	IgG protein concentration 10 mg/ml. No foreign proteins added.	
Performance testing	Titre, specificity and reactivity of the subclass specific cross-adsorbed IgG(7S) is further evaluated in a number of highly sensitive non-precipitating antibody-binding assay systems. These performance tests include direct single and double identification of clg in mouse cell and tissue substrates and their evaluation as second antibody in the analysis of human cells and tissues after reacting with a primary monoclonal mouse antibody to a human antigen. The quantitative specific recognition ability is verified in double staining procedures together with reference reagents of known specificity and reactivity.	
Intended use	<p>The cytochemical grade of RAM/IgG1/7S allows its use in different types of highly sensitive immunoassays on appropriately treated cell and tissue substrates; in radioimmunoassay; for the production of immunoconjugates with a selected marker; to prepare immunoaffinity adsorbents by coupling to an artificial carrier; in non-isotopic methodology based on solid phase immunochemistry (e.g. ELISA), both as catching antibody and detection reagent; in Western blotting.</p> <p><i>This product is not pre-diluted. The optimum working dilution of each product should be established by titration before being used.</i></p> <p>Working dilutions for histochemical and cytochemical use are usually between 1:100 and 1:500; in ELISA and comparable non-precipitating antibody-binding assays are between 1:1,000 and 1:5,000.</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 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 10 mg lyophilized IgG (7S) fraction.	
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 product 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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