

Description	Purified IgG fraction of polyclonal goat antiserum to goat rat IgE, Fc specific	
Product code	GARa/IgE(Fc)/7S	
Biological origin	Goat	
Physical form	Purified hyperimmune goat 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 homogenous IgE isolated from rat 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 antibody activity reacting with other components of the immunoglobulin system and to any other serum protein. Special attention is given to the elimination of antibodies to the common Fab portion of immunoglobulins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.	
Identity & Specificity	The reactivity of the antiserum is directed to the Fc subunits of the IgE molecule which represents strict isotype (class) specificity. In immunoelectrophoresis and double radial immunodiffusion, using various antiserum concentrations against appropriate concentrations of IgE, a single precipitin line is obtained which shows a reaction of full identity with the precipitin line obtained with the used immunogen. It does not react with rat IgG, including all subclasses, IgA, IgM and IgG/Fab or any non-Ig protein in rat serum.	
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 antiserum has not been tested in detail because of the low level of IgE in most species.	
Physicochemical characteristic	IgG protein concentration 10 mg/ml. No foreign proteins added.	
Performance testing	Isotype specificity and quantitative specific recognition ability are further evaluated at the high level of sensitivity by direct single and simultaneous double staining of different types of rat cells, using counterstaining with reference conjugates with a different marker. The immunoconjugate is further tested in ELISA-type assays.	
Intended use	As unlabelled secondary antibody for indirect detection of IgE in rat cell, tissue substrates and body fluids in immunofluorescence and immunoenzyme assay methods; for the production of immunoconjugates with a selected marker; to prepare insoluble immunoaffinity adsorbents by coupling to an artificial carrier; as catching or detecting antibody reagent in non-isotopic assay methodology (e.g. ELISA) to identify and measure IgE in rat serum or other body fluid. <i>When applied in any immunocytochemical or histochemical staining procedure or solid phase coupling technique, the optimum concentration of the IgG preparation should be established.</i> Working dilutions for histochemical and cytochemical use are usually between 1:100 and 1:250; in ELISA and comparable non-precipitating antibody-binding assays between 1:500 and 1:5,000.	
Handling	The lyophilized IgG fraction 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 product.	
Packing	Vial with 10 mg lyophilized IgG 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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