

Description	IgG fraction of polyclonal goat antiserum to mouse IgD, Fc specific	
Product code	GAM/IgD(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 polyclonal and monoclonal IgD isolated from BALB/C and C57BL 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 removal of antibodies to common Ig/Fab. 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 subunit of the IgD molecule which expresses strict isotypic (class) specificity. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against serum of mice belonging to different allotypic groups, a single precipitin line is obtained which show a reaction of identity with the precipitin lines obtained with the purified IgD of BALB/C and C57BL origin used as immunogens. It does not react with IgG, including all subclasses, IgM and IgG/Fab or any non-Ig protein in mouse serum, as tested by immunoelectrophoresis and double radial immunodiffusion. The antiserum also reacts with membrane-bound IgD in peripheral blood cells of different mouse strains as tested by immunofluorescence microscopy.	
Cross-reactivity	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 immunoconjugate has not been tested in detail.	
Physicochemical characteristic	IgG protein concentration 10 mg/ml. No foreign proteins added.	
Intended use	As unlabelled primary or secondary reagent for indirect detection techniques, to prepare conjugates with markers of the user's own choice, to prepare an insoluble immunoaffinity adsorbent or a solid phase antibody reagent by coupling to an artificial carrier and as catching or detection antibody in non-isotopic methodology and solid phase immunochemistry. <i>When applied in any cytochemical or histochemical procedure or solids phase coupling technique, the optimum concentration of the IgG preparation should always be established by titration.</i> Typical working dilutions in histochemistry are usually between 1:50 and 1:250; in ELISA and comparable non-precipitating antibody-binding assays between 1:500 and 1:5,000.	
Handling	The lyophilized 7S (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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