

Description	Precipitating polyclonal sheep antiserum to mouse IgD, Fc specific	
Product code	ShAM/IgD(Fc)	
Biological origin	Sheep	
Physical form	Delipidated, heat inactivated, lyophilized, stable whole antiserum	
Preservative	No preservative added.	
Immunogen	Highly purified polyclonal and monoclonal IgD isolated from Balb/C and C57Bl serum. Freund's complete adjuvant is used in the first step of the immunization procedure.	
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 reactivity of the antiserum is restricted to the Fc portion of the IgD molecule, which represents strict isotype (class specificity). In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against mouse serum belonging to different allotypic groups, a single characteristic precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with the purified IgD from Balb/C and C57Bl. No precipitation reaction is obtained with purified IgG, including all subclasses, IgA, IgM, IgG/Fab fragments or other serum proteins. The antiserum also reacts with membrane-bound IgD in peripheral blood cells of different mouse strains as tested by immunofluorescence microscopy.	
Cross-reactivity	The antiserum does not cross-react with any other component of the mouse Ig system. Inter-species cross reactivity is a normal feature of antibodies to immunoglobulins, since Ig of different species frequently share antigenic determinants, but this has not been tested because of the very low level of IgD in most species.	
Protein concentration	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal sheep serum. No foreign proteins added.	
Antibody titre	Precipitin titre 1:32 when tested against monoclonal IgD containing mouse serum in agar-block immunodiffusion titration.	
Intended use	In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence of IgD in mouse serum and other body fluids or to determine its concentration. To prepare an immunoabsorbent for the purification of mouse IgD from serum or plasma. This antiserum is not intended for use in non-precipitating antibody-binding or other highly sensitive assays. For such use labelled and unlabelled cytochemical and immunoassay grade reagents meeting the necessary additional specificity and performance requirements are available.	
Directions for use	The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.	
Packing	Vial with 1 ml lyophilized antiserum.	
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 antiserum 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> research purposes only.	

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