

<b>Description</b>	<b>Precipitating polyclonal sheep antiserum to dog IgG, Fc specific</b>	
<b>Product code</b>	ShAD/IgG(Fc)	
<b>Biological origin</b>	Sheep	
<b>Physical form</b>	Delipidated, heat inactivated, lyophilized, stable whole antiserum	
<b>Preservative</b>	0.01% sodium azide.	
<b>Immunogen</b>	Highly purified normal IgG isolated from pooled dog serum. Freund's complete adjuvant is used in the first step of the immunization procedure.	
<b>Adsorption</b>	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.	
<b>Identity &amp; Specificity</b>	The reactivity of the antiserum is restricted to the Fc part of the IgG molecule. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against normal dog serum a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified IgG. No precipitation reaction is obtained with purified IgA, IgM, and IgG/Fab fragments.	
<b>Cross-reactivity</b>	The antiserum does not cross-react with any other component of the dog immunoglobulin system. 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 antiserum has not been tested in detail.	
<b>Protein concentration</b>	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal sheep serum. No foreign proteins added.	
<b>Antibody titre</b>	Precipitin titre 1:16 when tested against pooled normal dog serum in agar-block immunodiffusion titration.	
<b>Intended use</b>	In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence of IgG in dog serum or other body fluids or to determine its concentration. To prepare an immunoabsorbent for the purification of dog IgG from serum or plasma. The antiserum is not intended for use in non-precipitating antibody-binding or other highly sensitive techniques. For such uses labelled and unlabelled cytochemical grade reagents raised in goats meeting the necessary additional specificity and performance requirements are available.	
<b>Directions for use</b>	In immunoelectrophoresis use 2 µl serum or equivalent against 120 µl antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 µl antiserum in 3 mm diameter center well and 2 µl serum samples (neat and serially diluted) in 2 mm diameter peripheral wells.	
<b>Packing</b>	Vial with 1 ml lyophilized antiserum.	
<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>Handling</b>	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.	
<b>Caution</b>	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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