

Description	Precipitating polyclonal goat antiserum to swine transferrin																	
Product code	GASw/Trf																	
Biological origin	Goat																	
Physical form	Delipidated, heat inactivated, lyophilized, stable whole antiserum																	
Preservative	No preservative added.																	
Immunogen	Purified transferrin isolated from pooled swine 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 reacting with other serum proteins. 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 transferrin as tested in immunoelectrophoresis and radial immunodiffusion. A characteristic single precipitin line is obtained with normal serum which shows a reaction of identity with the precipitin line with purified transferrin.																	
Cross-reactivity	<p>Inter-species cross-reactivity is a normal feature of antibodies to serum proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail, however tested in double radial immunodiffusion against several sera the following results were obtained:</p> <table border="0"> <tr> <td>bovine -</td> <td>duck -</td> <td>human -</td> <td>rat -</td> </tr> <tr> <td>cat -</td> <td>guinea pig -</td> <td>monkey -</td> <td>sheep -</td> </tr> <tr> <td>chicken -</td> <td>hamster -</td> <td>mouse -</td> <td>turkey -</td> </tr> <tr> <td>dog -</td> <td>horse -</td> <td>pigeon -</td> <td></td> </tr> </table>		bovine -	duck -	human -	rat -	cat -	guinea pig -	monkey -	sheep -	chicken -	hamster -	mouse -	turkey -	dog -	horse -	pigeon -	
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Protein concentration	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal goat serum. No foreign proteins added.																	
Antibody titre	Precipitin titre 1:32 when tested against pooled normal swine serum in agar-block immunodiffusion titration.																	
Intended use	In precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion to identify the presence transferrin in swine serum or other body fluids and to determine its concentration. This antiserum has not been tested in more sensitive assays as nephelometry, ELISA or use in immunohistology, but this does not exclude such use if proper controls are included.																	
Directions for use	In immunoelectrophoresis use 2 µl serum or equivalent against 120 µl antiserum. In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter centre well and 2 µl serum samples (neat and serially diluted) in 2 mm diameter peripheral wells.																	
Handling	<p>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.</p> <p>Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.</p>																	
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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