

<b>Description</b>	<b>Precipitating polyclonal sheep antiserum to bovine IgG1, subclass specific</b>	
<b>Product code</b>	ShAB/IgG1	
<b>Biological origin</b>	Sheep	
<b>Physical form</b>	Delipidated, heat inactivated, lyophilized whole antiserum.	
<b>Preservative</b>	No preservative added, as it may interfere with the antibody activity.	
<b>Immunogen</b>	Pools of purified normal IgG1 isolated from pooled bovine 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 directed to the subclass specific determinants on the Fc subunit of IgG1. It does not react with other IgG2, IgG/Fab fragments, IgM and IgA or any non-Ig protein in bovine serum, as tested by immunoelectrophoresis and double radial immunodiffusion.	
<b>Cross-reactivity</b>	This IgG fraction is not species-specific since inter-species cross-reactivity is a normal feature of antisera to immunoglobulins. Cross-reactivity of this product has not been tested in detail.	
<b>Protein concentration</b>	Total protein and IgG concentration in the antiserum are comparable to those of pooled normal sheep serum. No foreign proteins added.	
<b>Antibody titre</b>	Precipitin titre not less than 1:16 when tested against pooled normal bovine serum in agar block immunodiffusion titration.	
<b>Intended use</b>	In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence of IgG1 in bovine serum and other body fluids or to determine its concentration.	
<b>Directions for use</b>	In immunoelectrophoresis use 2 µl or equivalent against 120 µl antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 µl antiserum in a 3 mm diameter centre well and 2 µl serum samples (neat and diluted) in 2 mm diameter peripheral wells.	
<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>Packing</b>	Vial with 1 ml lyophilized antiserum.	
<b>Storage / shelf life</b>	Lyophilized at +4°C reconstituted at or below -20°C reconstituted at +4°C	at least 10 years 3-5 years 7 days
<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> laboratory research purposes only.	

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