Description	**IgG fraction of polyclonal sheep antiserum to free and bound mouse Ig lambda light chain**
Product code	ShAM/BJLSD+HD)/7S
Biological origin	Sheep
Physical form	Purified hyperimmune sheep IgG lyophilized from a solution in phosphate buffered saline (pH 7.2).
Preservative	No preservative added, as it may interfere with the antibody activity
Immunogen	A pool of purified Bence Jones lambda proteins isolated from mouse urine. 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 mouse serum proteins.
Purification	Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG fraction by DEAE-chromatography.
Identity & Specificity	The reactivity of the antiserum is directed to the surface and hidden determinants of Ig lambda light chain. In immunoelectrophoresis this antiserum is reacting with polyclonal and monoclonal immunoglobulins of the lambda type, Bence Jones proteins as well as free light chains of the lambda type. This antiserum does not react with any other protein of mouse serum or plasma.
Cross-reactivity	Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins and their fragments, since Ig of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.
Physicochemical characteristic	IgG protein concentration is 10 mg/ml. No foreign proteins added.
Antibody titre	Precipitin titre not less than 1:8 when tested against normal mouse serum in agar immunodiffusion block titration.
Intended uses	This IgG preparation is intended for use in precipitating (gel diffusion) and non-precipitating antibody-binding immunoassays (indirect immunofluorescence, enzyme immunoassays for the detection of polyclonal immunoglobulins, purified monoclonal immunoglobulins of the lambda type as well as free light chains or Bence Jones proteins of the lambda type in serum or other body fluids.; to prepare an insoluble immunoaffinity adsorbent or a solid phase catching antibody reagent by coupling to an artificial carrier; for labeling with a marker of the user's own choice. *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.* Working dilutions fro histochemical and cytochemical use 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 product 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 1 ml lyophilized IgG (7S) preparation.
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 *in vitro* laboratory research purposes only.

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