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Sheep anti Human Ig kappa light chains (free and bound)

Catalogue number: **ShAM/BJK(SD+HD)**

| | |
|--------------------|----------------------|
| Clone | Polyclonal |
| Product Type | Secondary Antibodies |
| Units | 1 ml |
| Host | Sheep |
| Species reactivity | Human |
| Application | Immunoprecipitation |

Background

The reactivity of the antiserum is directed to the surface and hidden determinants of Ig kappa light chain. In immunoelectrophoresis this antiserum is reacting with polyclonal and monoclonal immunoglobulins of the kappa type, Bence Jones proteins as well as free light chains of the kappa type. This antiserum does not react with any other protein of mouse serum or plasma. To detect and identify the light chain type of immunoglobulins or free light chains in serum or other body fluids by immunoelectrophoresis or double radial immunodiffusion.

Source

A pool of purified Bence Jones kappa proteins isolated from mouse urine. Freund's complete adjuvant is used in the first step of the immunization procedure.

Product

Delipidated, heat inactivated lyophilized whole serum. No preservative added, as it may interfere with the antibody activity.

Applications

Immunoprecipitation. In immunoelectrophoresis use 2 μ l serum or equivalent against 120 μ l antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 μ l antiserum in 3 mm diameter center well and 2 μ l serum samples (neat and serially diluted in 2 mm diameter peripheral wells). When carrying out analyses of Bence Jones proteins or free light chains in urine or serum using an immunodiffusion technique, special attention should be given to their faster rate of diffusion as compared to that of the antibody molecules in the antiserum. If they both start to diffuse into the gel in a double radial diffusion at the same time, an excess of the antigen may easily prevent visible precipitation. To prevent false negative results, the antiserum

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should be diffuse for about 2 hours before the antigen reservoir is filled.

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.

Specificity

Precipitating polyclonal Sheep antiSerum to free and bound Mouse Ig kappa light chain.

Storage

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. 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. 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 is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.