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Goat anti Rat Ig light chains kappa and lambda (free and bound)

Catalogue number: **GARa/L(SD+HD)**

Clone	Polyclonal
Product Type	Secondary Antibodies
Units	1 ml
Host	Goat
Species reactivity	Rat
Application	Immunoprecipitation

Background

As tested in immunoelectrophoresis and double radial immunodiffusion against pooled normal rat serum and purified IgG fractions and light chain preparations, the antiserum reacts with determinants exposed on the surface (SD) and the Fab portion of all intact immunoglobulins, with Fab or F(ab')₂ subunits, and with free light chains of both types; also with determinants exposed only on free light chains but hidden in the intact immunoglobulin molecule (HD or hidden determinants) or Bence Jones proteins. This antiserum is not kappa or lambda chain specific. It does not react with any non-Ig protein in rat serum, as tested by immunoelectrophoresis and double radial immunodiffusion. As precipitating antiserum in a variety of immunodiffusion techniques including immunoelectrophoresis and double and single radial immunodiffusion Mancini, Ouchterlony). It has not been tested for use in nephelometry, ELISA or immunochemistry, but this does not exclude such use if proper controls are included.

Source

Purified light chains isolated from polyclonal rat IgG. Freund's complete adjuvant is used in the first step of the immunization procedure.

Product

Delipidated, heat inactivated lyophilized stable whole serum No preservative added, as it may interfere with the antibody activity. No foreign protein added. Total protein and IgG concentration in the antiserum are comparable to those of pooled goat serum. No foreign proteins added.

Applications

Immunoprecipitation. In immunoelectrophoresis use 2 µl or

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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 serially diluted) in 2 mm diameter peripheral wells. In single immunodiffusion, use 1% antiserum in agar gel to establish a standard curve.

Cross Reactivity

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, but a wide scale of reactivity with IgG of other mammalian species must be assumed. The degree of cross-reactivity depends in addition to the phylogenetic relationship also on the concentrations of the reactants and the sensitivity of the assay format.

Specificity

Precipitating polyclonal Goat antiSerum to Rat light chains, free and bound.

Storage

The lyophilized antiserum 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. Working dilutions are prepared 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. 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.