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Rat anti Mouse alpha-2 macroglobulin

Catalogue number: **RaAM/A2M**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	1 ml
Host	Rat
Species reactivity	Mouse
Application	Immunoprecipitation

Background

The reactivity of the antiserum is restricted to alpha-2 macroglobulin 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 alpha-2 macroglobulin. In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence alpha-2 macroglobulin in mouse serum or other body fluids and to determine its concentration. This antiserum is not intended for use in non-precipitating antibody-binding or other highly sensitive assays, but this does not exclude such use if proper controls are included.

Source

Alpha-2 macroglobulin is the major protein in the alpha-2 region of mouse serum after separation by electrophoresis. It is a large polymer and a strong antigen. It forms about one-third in the total of the alpha-2 globulins. The protein is isolated by ammonium sulphate precipitation, ion exchange chromatography, gel filtration and preparative starch block electrophoresis. In the purification of alpha-2 macroglobulin the activation of kallikrein is avoided, since it forms an irreversible bond with alpha-2 macroglobulin, thus contaminating the final immunogen. Freund's complete adjuvant is used in the first step of the immunization procedure.

Product

Delipidated, heat inactivated, lyophilized, stable whole antiserum. No preservative added. Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal rat serum. No foreign proteins added.

Applications

Immunoprecipitation. In immunoelectrophoresis use 2 µl serum or

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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.

Cross Reactivity

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 been tested in double radial immunodiffusion (Ouchterlony) with the following results: Bovine - Cat - Chicken - Dog - ferret - Goat - Guinea Pig - Hamster - Horse - Human - Monkey - Rabbit - Sheep - Swine - Turkey -

Specificity

Precipitating polyclonal Rat antiSerum to Mouse alpha-2 macroglobulin.

Storage

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. 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.