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Goat anti Human alpha-2 macroglobulin

Catalogue number: **GAHu/A2M**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	1 ml
Host	Goat
Species reactivity	Human
Application	Immunoprecipitation

Background

The reactivity of the antiserum is restricted to human alpha-2 macroglobulin. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against normal human plasma a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified alpha-2 macroglobulin. No reaction is obtained with any other plasma protein components or serum. In precipitating techniques as immunoelectrophoresis and single or double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of alpha-2 macroglobulin in human plasma or other body fluids or to determine its concentration. This antiserum is not intended for use in non-precipitating antibody binding or other highly sensitive assays, but this does exclude such use if proper controls are included.

Source

Alpha-2 macroglobulin (clotting factor I) is the major protein in the alpha-2 region of human serum after separation by immunoelectrophoresis. The concentration in normal plasma is about 2.5 mg/ml. 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 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 as it may interfere with the antibody

Distributors

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activity. Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal goat serum.

Applications

Immunoprecipitation. 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.

Cross Reactivity

The antiSerum does not cross-react with any other component of Human plasma. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins since they frequently share antigenic determinants. Cross-reactivity of this antiSerum has been tested in double radial immunodiffusion anti several ser of other species with the following results: Bovine + Cat + Monkey ++ Mouse - Dog ± Goat - Rabbit + Rat -

Specificity

Precipitating polyclonal Goat antiSerum to Human alpha-2 macroglobulin

Storage

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.