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Goat anti Human antithrombin III

Catalogue number: **GAHu/ATH III**

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

Distributors

For Purchasing Information, please contact your local distributor

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Background

The reactivity of the antiserum is restricted to antithrombin III. In immunoelectrophoresis and radial immunodiffusion (Ouchterlony), using various antiserum concentrations against fresh normal human plasma a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified antithrombin III. No reaction is obtained with any other plasma protein including the main proteinase inhibitors known to have structural homology with antithrombin III. Protein complexes containing antithrombin III may also react. The anodic mobility enables quantitative determination of antithrombin III using the standard EID technique (Laurell).

Immunoelectrophoresis and radial immunodiffusion are used to identify antithrombin III and enzyme inhibitor complexes. Double radial immunodiffusion (Mancini) is also used for quantitative assays. If applied in more sensitive test procedures, in Immunohistochemistry, or solid phase immunoassays, appropriate specificity controls should always be included. Plasma samples and all assay components must contain EDTA to stabilize the proteins.

Source

Antithrombin II is a single polypeptide chain glycoprotein (MW 61,000) with a high degree of homology with the alpha-1 antitrypsin. It is a circulating natural anticoagulant acting as a proteinase inhibitor. It is synthesized in the liver and the vascular endothelial cells. In electrophoresis of plasma it migrates in the alpha-1 region and is consumed during coagulation in vivo. Antithrombin III inhibits the action of factors IXa, Xa, XIIa, thrombin and kallikrein by forming a stable complex. Heparin acts as a cofactor which greatly increases its inhibitory activities. Normal adult plasma contain an average of 0.15 mg antithrombin III per ml. This can vary from 75 to 128%. A partial deficiency in antithrombin III activity in the plasma (less than 50%) will result in an increased tendency to recurrent thrombo-embolism. Several

types of congenital deficiency have been reported. Most common type 1 deficiency patients have reduced antithrombin III antigen and activity levels. Heterozygotes have levels of 25 to 50% of normal values. For use as an immunogen antithrombin III is isolated and highly purified from pooled plasma. 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 goat serum.
No foreign proteins added.

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 crossreactivity is a normal feature of antibodies to plasma proteins since they frequently share antigenic determinants. Cross-reactivity of this antiSerum has not been tested in detail, however in double radial immunodiffusion a reaction has been found with Rhesus Monkey.

Specificity

Precipitating polyclonal Goat antiSerum to Human antithrombin III

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.