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Rabbit anti Human fibronectin

Catalogue number: **RAHu/Fbn**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	1 ml
Host	Rabbit
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 fibronectin. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against human plasma, sera and purified fibronectin a single precipitin line is obtained. Testing in electroimmunodiffusion (Laurell) gives a single precipitation line. No precipitation reaction is obtained with other protein in plasma or serum. In precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of fibronectin or to determine its concentration. The presence of non-precipitating antibodies has not been assayed. This does not exclude the use of the antiserum in non-precipitating antibody-binding techniques as ELISA and Western blotting if proper controls are included.

Source

Fibrinogen (clotting factor I) is a heat labile beta glycoprotein (molecular weight 340,000) and consists of three pairs of chains bound by disulphide bonds. It is synthesized in hepatocytes under genetic control. It is the precursor of fibrin, which is the key protein constituting the network of the blood clot. Thrombin converts fibrinogen to fibrin by limited proteolysis, releasing the fibrinopeptides A and B (molecular weight 50,000-65,000) and forming fibrin monomers. Fibrin monomers polymerize to fibrin which is stabilized by cross-linking under the influence of factor XIII. The predominant gamma chain of normal fibrinogen (MW 50,000, with higher variants) has a low affinity for platelet binding. Fibrinogen is isolated from fresh plasma after removing prothrombin. Freund's complete adjuvant is used in the first step of the immunization procedure.

Product

Delipidated, heat inactivated, lyophilized, stable whole antiserum. Sodium azide 0.7 mg/ml Total protein and IgG concentrations in the antiserum are comparable to those of normal pooled rabbit

serum. No foreign proteins added.

Applications

Immunoprecipitation. In immunoelectrophoresis use 2 µl amniotic fluid or equivalent against 120 µl antiserum. In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter center well and 2 µl amniotic fluid or hepatoma serum samples (neat and serially diluted) in 2 mm diameter peripheral wells.

Cross Reactivity

The antiSerum does not cross react with any other Human plasma proteins as tested in gel-diffusion techniques. Inter-species cross reactivity is a normal feature of antibodies to mammalian Serum proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiSerum has not been tested in detail, however in double radial immunodiffusion a reaction with cow, Cat, Dog and Monkey have been observed.

Specificity

Precipitating polyclonal Rabbit antiSerum to Human fibronectin.

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 product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.