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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Rabbit anti Human Factor XIII-A

Catalogue number: **RAHu/FXIII-A**

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 defined antibody reactivity is restricted to Factor XIII and FXIIIa in plasma and to platelet FXIII. As tested at the level of sensitivity of immunoprecipitation techniques a single precipitin line is obtained in bidimensional electrophoresis, immunoelectrophoresis and double radial immunodiffusion (Ouchterlony) which shows a reaction of full identity with A subunits of FXIII. No reaction is obtained with FXIII-depleted plasma and with B subunits. In precipitating techniques as electroimmunodiffusion, immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony). To prepare an adsorbent for immunoaffinity purification of FXIII. If used in more sensitive test procedures or as catching or detection antibody in solid phase immunoassays specificity controls should always be include. Increase in plasma FXIII has been observed in type IV hyperlipoproteinaemia and in combined hyperlipodaemia. Congenital and acquired FXIII deficiencies have also been reported. In some cases of myeloma, inhibition of FXIII activity by the paraproteins may occur.

Source

Plasma FXIII is an active transglutaminase until it is activated (FXIIIa). It consists of two A subunits joined as a dimer, connected to two B subunits (A₂B₂). Each A subunit has a molecular weight of 75,000 and each B subunit of 80,000, making an aggregate molecular weight of the whole molecule of 320,000. Normal plasma contains about 20mg/ml. Platelet FXIII consists of only A subunits synthesized in the megakaryocytes. It accounts for about 50% of the total blood FXIII activity with a linear relationship between FXIII level and platelet counts. RAHu/FXIII-A reacts with both plasma and platelet FXIII. Antiserum raised against the B subunit (RAHu/FXIII-S) reacts exclusively with native and activated FXIIIa in plasma. FXIIIa results from activation of FXIII by thrombin after the release of fibrinopeptides A from fibrinogen. Highly purified FXIII-A is used for the immunization. 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. Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal rabbit serum. No foreign proteins added.

Applications

Immunoprecipitation. In immunoelectrophoresis in agarose-plates use 2 µl human plasma 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 plasma samples (neat and serially diluted) in 2 mm diameter peripheral wells. In electroimmunodiffusion the amount of antiserum required in the agarose gel is usually between 1 and 2% depending on the test arrangement.

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 plasma proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiSerum has not been tested in detail.

Specificity

Precipitating polyclonal Rabbit antiSerum to Human coagulation factor XIII-A.

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.