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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Goat anti Human Factor XI

Catalogue number: **GAHu/FXI**

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 defined antibody reactivity is restricted to FXI, FXIa and complexes of FXI with HMWK or other proteins. In immunoelectrophoresis, bi-dimensional electrophoresis and radial immunodiffusion (Ouchterlony) against normal plasma, a single precipitin line is obtained which shows a reaction of identity with precipitated purified Factor XI. No reaction is obtained with FXI-depleted plasma. This antiserum is primarily intended for the measurement of Factor XI in human plasma using the EID method (Laurell). FXI is one of the four proteins known to be involved in normal contact activation reactions, activating FXII to FXIIa, which is further capable of triggering the kinin-forming pathway and the fibrinolytic system. FXI is present in normal human plasma both in free form and as a reversible complex with HMWK. FXI competes with prekallikrein (PKK) to form such complexes. Since FXI is a gammaglobulin with cathodic mobility in electrophoresis, up to 140 µg/ml purified HMWK must be added to the plasma to bind all free FXI into negatively charged complexes which will migrate to the anode. The total FXI content can then be measured. The average amount of FXI in an individual plasma was found to be 4.5 µg/ml with a range of 3 to 6 µg/ml. The sensitivity of the EIID method is about 0.2 µg/ml. A congenital deficiency of FXI in plasma can give rise to a serious bleeding disorder. In most cases the plasma level of FXI antigen is also depressed; exceptionally the FXI antigen is normal (a defective molecule). An acquired reduction in both clotting activity and FXI antigen level has been described in disseminated intravascular coagulopathy, in hepatic cirrhosis and in some patients with lupus erythematosis.

Source

Factor XI is a glycoprotein (MW 160,000) composed of two identical polypeptide chains. In electrophoresis it migrates in the gamma region. It is stable on storage, heat stable at 56°C for 30 minutes and not adsorbed by gels. Factor XI also occurs in platelets (MW 52,000). Factor XI is converted to an active enzyme by FXIIa but can

be activated by other proteases such as trypsin. FXIa activates FIX, but can also activate FXII and plasminogen. Platelet membrane FXI can substitute for plasma FXI in coagulation. Plasma FXI is used for 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 goat serum. No foreign proteins added.

Applications

Immunoprecipitation. The antiserum concentration required in the gel is normally between 1 and 2%.

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 Goat antiSerum to Human coagulation Factor XI

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.