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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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Goat anti Human protein S

Catalogue number: **GAHu/pS**

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 specificity is restricted to protein S as tested at the level of sensitivity of immuno-precipitation techniques and ELISA techniques. A single precipitin line is obtained in immunoelectrophoresis, bidimensional electrophoresis and double radial immunodiffusion (Ouchterlony) against normal plasma, which shows a reaction of identity with the precipitated purified protein S. The antiserum also reacts with the protein S component in complexes with protein C or with C4b binding protein. No reaction is obtained with any other plasma protein. In precipitating techniques as immunoelectrophoresis, single or double radial immunodiffusion, electro-immunodiffusion, immunonephelometry as well as solid phase and neutralization reactions. As catching antibody in ELISA; to prepare an adsorbent for immunoaffinity purification of protein S. Plasma samples and all assay components must contain EDTA to stabilize the protein.

Source

Protein S is a vitamin K dependent plasma glycoprotein (MW 69,000) which belongs to a group of coagulation inhibitors consisting itself of proteinases. It circulates in the blood in a free active form and in an inactive form bound to C4b binding protein. Protein S is also released by thrombin stimulation from platelet alpha-granules. Protein S acts as a cofactor for activated protein C (pCa) enhancing the cleavage of factors Va and VIIIa, producing anticoagulation by decreasing the conversion of prothrombin to thrombin. It also stimulates the fibrinolytic system. Protein S loses much of its coagulant cofactor activity after cleavage by thrombin, a process which is inhibited by thrombomodulin in the presence of free calcium ions. Plasma concentration of protein S may be significantly reduced below normal adult levels (2.5 mg/ml) in patients with hereditary deficiency of protein S or suffering a combination of deep vein thrombosis, superficial thrombophlebitis and pulmonary embolism. Substances such as bacterial endotoxins, tumour necrosis factor and immune mediator

interleukin 1 also reduce the protein S level in plasma. Oral contraceptives also depress pS activity. A reduction in plasma protein S during pregnancy usually returns to normal after parturition. 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. In immunoelectrophoresis use 2 µl human serum against 120 µl antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 µl antiserum in a 3 mm diameter center well and 10 µl of the antiserum in 3 mm diameter peripheral wells. In single radial immunodiffusion use 1% antiserum in the gel.

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 not been tested in detail.

Specificity

Precipitating polyclonal Goat antiSerum to Human protein S

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.