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Rabbit anti Human platelet factor 4

Catalogue number: **RAHu/PF4**

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

Background

The reactivity of the antiserum is restricted to platelet factor 4 as tested in immunoelectrophoresis and radial immunodiffusion. A characteristic single precipitin line is obtained with normal serum which shows a reaction of identity with the precipitin line with purified immunogen. In precipitating techniques as electroimmunodiffusion (Laurell), immunoelectrophoresis and single and double radial immunodiffusion to identify the presence platelet factor 4. This antiserum has not been tested in more sensitive assays as nephelometry, ELISA or use in immunohistology, but this does not exclude such use if proper controls are included. Measurement of platelet factor 4 is of significance for diagnosis of platelet disorders involving platelet alpha granules and to demonstrate increased platelet secretion in vivo. Reduced levels are measured in gray platelet syndrome, whereas elevated levels have been reported in cases as coronary artery disease, myocardial infarction, disseminated intravascular coagulation, cerebrovascular disease and cancer.

Source

Platelet factor 4 is a low molecular weight (MW 7,800) heat stable protein, secreted by alpha granules of the platelets. Purified platelet factor 4 isolated from pooled human serum. Freund's complete adjuvant is used in the first step of the immunization procedure.

Product

Delipidated, heat inactivated, lyophilized, stable whole antiserum Sodium azide. Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal rabbit serum. No foreign proteins added.

Applications

Distributors

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Immunoprecipitation. In immunoelectrophoresis use 2 µl serum or equivalent against 120 µl antiserum. In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter centre well and 2 µl serum 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. The amount of platelet factor 4 precipitated by 1 ml antiserum is approximately 0.1 mg.

Cross Reactivity

Inter-species cross-reactivity is a normal feature of antibodies to Serum proteins, since homologous proteins of different species frequently share antigenic determinants. Crossreactivity of this antiSerum has not been tested in detail. In double radial immunodiffusion a reaction has been observed with Bovine, Cat, Dog and Monkey.

Specificity

Precipitating polyclonal Rabbit antiSerum to Human platelet factor 4.

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 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.