

Product datasheet for **AP33063SU-N**

PF4 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ID, IP

Recommended Dilution: **Immunoprecipitation.**

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.

Directions for Use:

Immunoelectrophoresis: Use 2 µl or equivalent against 120 µl antiserum.

Double Radial Immunodiffusion use a rosette arrangement with 10 µl antiserum in a 3 mm diameter centre well and 2 µl serum samples (neat and diluted) in 2 mm diameter peripheral wells.

Antibody titre: The amount of platelet factor 4 precipitated by 1 ml antiserum is approximately 0.1 mg.

Reactivity: Human

Host: Rabbit

Clonality: Polyclonal

Immunogen: Purified platelet factor 4 isolated from pooled Human serum.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Specificity: 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.

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. Cross reactivity of this antiserum has not been tested in detail. In double radial immunodiffusion a reaction has been observed with Bovine, Cat, Dog and Monkey.

Formulation: State: Serum
State: Lyophilized (delipidated, heat inactivated) stable whole antiserum
Preservative: Sodium Azide

Reconstitution Method: Restore by adding 1 ml of sterile distilled water



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Concentration:	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal sheep serum. No foreign proteins added.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	platelet factor 4
Database Link:	Entrez Gene 5196 Human P02776
Background:	Platelet factor 4 is a low molecular weight (MW 7,800) heat stable protein, secreted by alpha granules of the platelets. 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.
Synonyms:	PF-4, Iroplact, Oncostatin-A, CXCL4, SCYB4
Note:	<u>Adsorption:</u> Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.