

Description	Precipitating polyclonal rabbit antiserum to human fibrinopeptide E	
Product code	RAHu/FPE	
Biological origin	Rabbit	
Physical form	Delipidated, heat inactivated, lyophilized, stable whole antiserum	
Preservative	Sodium azide 1 mg/ml	
Immunogen	Fibrinogen (clotting factor I) is a heat labile beta glycoprotein (molecular weight 340,000) and consists of three pairs of chains bound by disulphide bonds. It is synthesized in hepatocytes under genetic control. It is the precursor of fibrin, which is the key protein constituting the network of the blood clot. Thrombin converts fibrinogen to fibrin by limited proteolysis, releasing the fibrinopeptides A and B (molecular weight 50,000-65,000) and forming fibrin monomers. Fibrinopeptide E is released from fibrinogen by plasminolytic degradation. Fibrin monomers polymerize to fibrin which is stabilized by cross-linking under the influence of factor XIII. The predominant gamma chain of normal fibrinogen (MW 50,000, with higher variants) has a low affinity for platelet binding. Fibrinopeptide E, molecular weight 50,000, is isolated from fresh plasma. Freund's complete adjuvant is used in the first step of the immunization procedure.	
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.	
Identity & Specificity	The reactivity of the antiserum is reacting with the fragment E as well as intact fibrinogen, fibrin monomers, fragment X and fragment Y. In immunoelectrophoresis, bidimensional electrophoresis and double radial immunodiffusion against normal human one single precipitin line is obtained. No reaction is obtained with any other plasma protein or normal serum.	
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.	
Protein concentration	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal rabbit serum. No foreign proteins added.	
Antibody titre	Titre: 0.2 mg/ml \pm 25% as determined by the Becker's method by using radial immunodiffusion with purified fibrinopeptide as calibrator. Precipitin titre not less than 1:64 as measured against normal human plasma in agar block immunodiffusion titration.	
Intended use	In immunoelectrophoresis use 2 μ l or equivalent against 120 μ l antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 μ l in a 3 mm diameter center well and 2 μ l serum samples (neat and serially diluted) in 2 mm diameter peripheral wells. In electroimmunodiffusion the amount of antiserum required in the gel is usually between 1 and 25 depending on the test arrangement	
Directions for use	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.	
Packing	Vial with 1 ml lyophilized antiserum.	
Storage / shelf life	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 antiserum should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For <i>in vitro</i> research purposes only.	

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