Description	**Precipitating polyclonal rabbit antiserum to human plasminogen**
Product code	RAHu/Plg
Biological origin	Rabbit
Physical form	Delipidated, heat inactivated, lyophilized, stable whole serum.
Preservative	No preservative added.
Immunogen	Native plasminogen is a single polypeptide chain, synthesized in the liver. Its molecular weight has been reported to be 81,000 and 92,000. Part of the molecule contains the active serine esterase of plasmin. On activation it is converted to two polypeptide chains linked by disulphide bridges. Three different abnormal molecular forms of plasminogen have been described. Normal adult plasma contains 10-20 mg/100 ml plasminogen. Different congenital molecular structure abnormalities associated with recurrent thrombosis have been described, but are extremely rare. In liver disease plasminogen activity may be reduced. 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 human serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
Identity & Specificity	The defined antibody reactivity is restricted to plasminogen as tested at the level of sensitivity of immuno-precipitation techniques. A single precipitin line is obtained in bidimensional electrophoresis, immunoelectrophoresis and double radial immunodiffusion (Ouchterlony) which shows a reaction of full identity with the purified immunogen. No precipitation is obtained with any other plasma protein or with plasminogen-deficient plasma. The antiserum may also react with plasmin conversion intermediates and with plasmin.
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, however in double radial immunodiffusion ea reaction has been observed with bovine, dog and rhesus monkey.
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	Precipitin titre not less than 1:32 when tested against normal human plasma in agar-block immunodiffusion titration. The amount of plasminogen precipitated from normal plasma by 1 ml antiserum is about 3 U. One unit is the average amount of plasminogen in 1 ml normal plasma which corresponds to about 0.1 to 0.2 mg.
Intended use	In precipitating techniques as electroimmunodiffusion (Laurell), immunoelectrophoresis, single and double radial immunodiffusion (Mancini, Ouchterlony), immunonephelometry, solid phase assays; as catching or detection antibody in ELISA. EDTA should be added to the plasma samples and all assay components to stabilize the proteins; to prevent activation of plasminogen in plasma samples epsilon-aminocaproic acid may be added.
Directions for use	In electroimmunodiffusion the amount of antiserum required in the agarose gel is usually between 1 and 2% depending on the test arrangement.
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
Handling	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.
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 *in vitro* research purposes only.

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