

Prekallikrein Polyclonal Antibody, HRP

Catalog Number PA1-74146

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Sheep / IgG	<div>Tested ApplicationsDilution * ELISA (ELISA)Assay-dependent</div>	
Class	Polyclonal		
Type	Antibody	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Immunogen	Kallikrein (active site-blocked) from human plasma.		
Conjugate	HRP		
Form	Liquid		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

**Product specific information**

PA1-74146 detects Prekallikrein from human samples. PA1-74146 has been successfully used in ELISA applications. The PA1-74146 immunogen is Kallikrein (active site-blocked) from human plasma.

**Background/Target Information**

Plasma prekallikrein is a glycoprotein that participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. It is synthesized in the liver and secreted into the blood as a single polypeptide chain. Plasma prekallikrein is converted to plasma kallikrein by factor XIIa by the cleavage of an internal Arg-Ile bond. Plasma kallikrein therefore is composed of a heavy chain and a light chain held together by a disulphide bond. The heavy chain originates from the amino-terminal end of the zymogen and contains 4 tandem repeats of 90 or 91 amino acids. Each repeat harbors a novel structure called the apple domain. The heavy chain is required for the surface-dependent pro-coagulant activity of plasma kallikrein. The light chain contains the active site or catalytic domain of the enzyme and is homologous to the trypsin family of serine proteases. Plasma prekallikrein deficiency causes a prolonged activated partial thromboplastin time in patients.

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