

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti-Human Plasminogen Activator Inhibitor 1 (PAI-1) Antibody

Catalog No:
130-10010

Isotype:
Rabbit IgG

Species:
Human

Accession No:
NP_000593

Description

Plasminogen Activator Inhibitor 1 (PAI-1) Also known as SERPINE1, a 45kDa serine protease inhibitor and member of the serpin family, which acts as the primary inhibitor of tissue plasminogen activator (tPA) and urokinase plasminogen activator (uPA), and hence fibrinolysis. Increased levels of PAI-1 are associated with diabetes, cardiovascular disease and an increased occurrence of thrombosis in obesity, and can be induced by obesity related factors including insulin, glucose and VLDL (very-low-density lipoprotein).

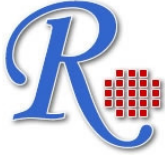
Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:20000
Western Blot			*	
Enzyme Immunoassay (EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was a synthetic protein derived from Human PAI-1. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum followed by Protein A/G affinity chromatography.

Specificity

Rabbit Anti-Human PAI-1 antibody detects a target derived from a human recombinant PAI-1 protein as well as selected cell lysates. Cross reactivity with mouse and rat PAI-1 was not determined.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1 x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Reference

Sreerama Shetty, et al., (2008) Regulation of plasminogen activator inhibitor-1 expression by tumor suppressor protein p53. *J Biol Chem.* 11;283(28): 19570–19580

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