

Datasheet: AHP1617

**BATCH NUMBER 220714**

<b>Description:</b>	RABBIT ANTI HUMAN PAI-1
<b>Specificity:</b>	PAI-1
<b>Other names:</b>	SERPINE1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.1ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended.
<b>Antiserum Preparation</b>	Antiserum to human PAI-1 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Recombinant human PAI-1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05121</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5054</a>    SERPINE1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	PAI1, PLANH1
<b>RRID</b>	AB_2187035
<b>Specificity</b>	<p><b>Rabbit anti Human PAI-1 antibody</b> recognises human PAI-1, also known as plasminogen activator inhibitor-1 or SERPINE1. PAI-1 is a ~45 kDa serine protease inhibitor and member of the serpin family, which acts as the primary inhibitor of tissue plasminogen activator (<a href="#">tPA</a>) and urokinase plasminogen activator (<a href="#">uPA</a>), and hence fibrinolysis.</p> <p>Mutations of the SERPINE1 gene are associated with Plasminogen activator inhibitor-1 deficiency (PAI-1D), a condition characterized by episodes of severe hemorrhage (<a href="#">Saes et al. 2019</a>). Heterozygous carriers of the mutation do not display the same phenotype, instead demonstrate longer telomere length, lower incidence of diabetes and increased longevity (<a href="#">Khan et al. 2017</a>).</p> <p>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 very-low-density lipoprotein (<a href="#">Altalhi et al. 2021</a>).</p>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.  After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10162 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/AHP1617>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M372496:200706'

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