

Datasheet: AHP1100

Description:	GOAT ANTI HUMAN PAI-1
Specificity:	PAI-1
Other names:	SERPINE1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin (1)	■			4.0 - 6.0 ug/ml
ELISA	■			1/32000
Immunoprecipitation			■	
Western Blotting	■			0.1 - 0.3 ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This antibody requires heat-mediated antigen retrieval prior to staining paraffin sections. Citrate buffer pH6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Dog, Chimpanzee N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid

Antiserum Preparation Antisera to human PAI-1 were raised by repeated immunisations of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	Peptide with sequence C-GFKIDDKGMALRH, corresponding to the internal region of PAI-1 (NP_000593.1).
External Database Links	UniProt: P05121 Related reagents Entrez Gene: 5054 SERPINE1 Related reagents
Synonyms	PAI1, PLANH1
Specificity	Goat anti human PAI-1 antibody recognizes human Plasminogen activator inhibitor 1 (PAI-1), also known as Serpin E1. PAI-1 is a 402 amino acid }45kDa serine protease inhibitor epitope within the internal region of human Serpin E1. PAI-1 (Serpin E1) is a 45kD serine protease inhibitor and the principle inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA) PAI-1 is present in plasma, platelets and endothelial cells, is expressed at increased levels in various disease states (Kruithof et al. 1988), and has been linked to an increased occurrence of thrombosis in obesity and coronary artery disease (Oseroff et al. 1989). Defects in PAI-1 are characterized by abnormal bleeding (Takahashi et al. 1996). Goat anti human PAI-1 antibody has been used successfully for the detection of PAI-1 in human tissues by immunohistochemistry, western blotting and ELISA.
Histology Positive Control Tissue	Human Placenta
Western Blotting	Goat anti human PAI-1 detects a band of approximately 45kDa in human duodenum, liver and lung lysates. A minimum incubation time of 1 hour is recommended with this antibody.
References	- De Taeye, B. <i>et al.</i> (2005) Plasminogen activator inhibitor-1: a common denominator in obesity, diabetes and cardiovascular disease. Curr Opin Pharmacol. 5 (2): 149-54. - Berg, D. <i>et al.</i> (2012) Profiling signalling pathways in formalin-fixed and paraffin-embedded breast cancer tissues reveals cross-talk between EGFR, HER2, HER3 and uPAR. J Cell Physiol. 227: 204-12. - Wolff, C. <i>et al.</i> (2011) Signalling networks associated with urokinase-type plasminogen activator (uPA) and its inhibitor PAI-1 in breast cancer tissues: new insights from protein microarray analysis. J Pathol. 223: 54-63. - Malinowsky, K. <i>et al.</i> (2014) uPA and PAI-1-Related Signaling Pathways Differ between Primary Breast Cancers and Lymph Node Metastases. Transl Oncol. 5: 98-104. - Berg, D. <i>et al.</i> (2011) Discovery of new molecular subtypes in oesophageal adenocarcinoma. PLoS One. 6 (9): e23985.
Further Reading	1. Lijnen, H.R. (2005) Pleiotropic functions of plasminogen activator inhibitor-1. J Thromb Haemost. 3 (1): 35-45.
Storage	Store at +4°C or at -20°C if preferred. 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.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10058 available at: 10058: https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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