

## Datasheet: VPA00047

<b>Description:</b>	GOAT ANTI PAI-1
<b>Specificity:</b>	PAI-1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	100 µl

## 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
Immunohistology - Paraffin	▪			
ELISA	▪			
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Goat polyclonal antibody purified by affinity chromatography.
<b>Buffer Solution</b>	TRIS buffered saline.
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> ) 0.5% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Peptide with sequence C-GFKIDDKGMAPALRH, corresponding to the internal region of PAI-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 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 recognizes PAI-1 as a single band of 43 kDa in a range of human cell lysates.

**Western Blotting**

Goat anti PAI-1 detects a band of approximately 43 kDa in MCF7 cell lysates.

**References**

1. Berg, D. *et al.* (2011) Discovery of new molecular subtypes in oesophageal adenocarcinoma. [PLoS One. 6 \(9\): e23985.](#)
2. Wolff, C. *et al.* (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 \(1\): 54-63.](#)
3. Malinowsky, K. *et al.* (2012) uPA and PAI-1-Related Signaling Pathways Differ between Primary Breast Cancers and Lymph Node Metastases. [Transl Oncol. 5 \(2\): 98-104.](#)
4. Berg, D. *et al.* (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 \(1\): 204-12.](#)

**Further Reading**

1. De, B.T. *et al.* (2005) Plasminogen activator inhibitor-1: a common denominator in obesity, diabetes and cardiovascular disease. [Curr Opin Pharmacol. 5 \(2\): 149-54.](#)
2. Lijnen, H.R. (2005) Pleiotropic functions of plasminogen activator inhibitor-1. [J Thromb Haemost. 3 \(1\): 35-45.](#)

**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

**Guarantee**

12 months from date of despatch.

**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories.

**Health And Safety  
Information**

Material Safety Datasheet documentation #10058 available at:  
<https://www.bio-rad-antibodies.com/SDS/VPA00047>  
Antibody (10058)

## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)

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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://bio-rad-antibodies.com/datasheets)

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