

Datasheet: VPA00047

BATCH NUMBER 230914

Description:	GOAT ANTI PAI-1
Specificity:	PAI-1
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Goat polyclonal antibody purified by affinity chromatography
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Immunogen	Peptide with sequence C-GFKIDDKGMALRH, corresponding to the internal region of PAI-1.

External Database Links

UniProt:

[P05121](#)

[Related reagents](#)

Entrez Gene:

[5054](#) SERPINE1 [Related reagents](#)

Synonyms	PAI1, PLANH1
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Specificity	<p>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)</p> <p>PAI-1 is present in plasma, platelets and endothelial cells, is expressed at increased levels in various disease states (Kruithof <i>et al.</i> 1988), and has been linked to an increased occurrence of thrombosis in obesity and coronary artery disease (Oseroff <i>et al.</i> 1989). Defects in PAI-1 are characterized by abnormal bleeding (Takahashi <i>et al.</i> 1996).</p> <p>Goat anti Human PAI-1 antibody recognizes PAI-1 as a single band of 43 kDa in a range of human cell lysates.</p>
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Western Blotting	Goat anti PAI-1 detects a band of approximately 43 kDa in MCF7 cell lysates.
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References	<ol style="list-style-type: none">De, B.T. <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 (1): 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 (1): 54-63.Malinowsky, K. <i>et al.</i> (2012) uPA and PAI-1-Related Signaling Pathways Differ between Primary Breast Cancers and Lymph Node Metastases. Transl Oncol. 5 (2): 98-104.Berg, D. <i>et al.</i> (2011) Discovery of new molecular subtypes in oesophageal adenocarcinoma. PLoS One. 6 (9): e23985.
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Further Reading	1. Lijnen, H.R. (2005) Pleiotropic functions of plasminogen activator inhibitor-1. J Thromb Haemost. 3 (1): 35-45.
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Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
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Guarantee	12 months from date of despatch
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Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.
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Health And Safety Information	Material Safety Datasheet documentation #10058 available at: https://www.bio-rad-antibodies.com/SDS/VPA00047 Antibody (10058)
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Regulatory	For research purposes only
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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

'M370454:200529'

Printed on 25 Mar 2023

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