



Anti-Human PAI-1

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P246
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human hPAI-1. Anti-Human hPAI-1 specific antibody was purified by affinity chromatography employing immobilized human hPAI-1 matrix.

Target Background

Synonyms (Target):	PAI-1
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As a member of the Serpin superfamily of serine protease inhibitors, Serpin E1/PAI1 is the principal inhibitor of urokinase-type plasminogen activator (uPA) and tissue type plasminogen activator (tPA). As important regulators of extracellular matrix remodeling, uPA and PAI 1 play a major role in many processes such as angiogenesis, tumor invasion and obesity. For example, uPA and PAI1 are the only tumor prognostic factors validated at the highest level of evidence with regard to their clinical utility in breast cancer. The human PAI1 is initially synthesized as 402 amino acid precursor with a Nterminal signal peptide. PAI 1 may exist in one of two possible conformations, designated as active or latent.

Database References Target

Protein RefSeq:	NP_000593.1
Uniprot ID:	P05121
mRNA RefSeq:	NM_000602.4

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant Human PAI-1
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of hPAI-1 (4.5 µg/ml), a concentration of at least 15.0 µg/ml of this antibody is required.

Western Blot: To detect hPAI-1 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hPAI-1 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

ELISA: To detect hPAI-1 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with an appropriate secondary conjugated antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hPAI-1.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!