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PAI-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11009

Specification

PAI-1 Antibody - Product Information

Application	**WB**
Primary Accession	P20961
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**45010**

PAI-1 Antibody - Additional Information

Gene ID 24617

Application & Usage	**Western blot analysis (1-2 µg/ml). However, the optimal conditions should be determined individually. The antibody detects rat PAI-1. Cross reactivity of the antibody to other species has not been determined.**

Other Names
PAI1, PAI 1, PAI, PAI-1, Plasminogen activator inhibitor , Endothelial plasminogen activator inhibitor

Target/Specificity
PAI-1

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) protein A affinity purified rabbit anti-PAI-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 0.1% BSA, 0.02% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions

PAI-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PAI-1 Antibody - Protein Information

Name Serpine1

Synonyms Pai1, Planh1

Function
Serine protease inhibitor. Inhibits TMPRSS7. Is a primary inhibitor of tissue-type plasminogen activator (PLAT) and urokinase- type plasminogen activator (PLAU). As PLAT inhibitor, it is required for fibrinolysis down-regulation and is responsible for the controlled degradation of blood clots. As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading. Acts as a regulator of cell migration, independently of its role as protease inhibitor. It is required for stimulation of keratinocyte migration during cutaneous injury repair. It is involved in cellular and replicative senescence (By similarity). Plays a role in alveolar type 2 cells senescence in the lung (By similarity). Is involved in the regulation of cementogenic differentiation of periodontal ligament stem cells, and regulates odontoblast differentiation and dentin formation during odontogenesis (By similarity).

Cellular Location
Secreted {ECO:0000250|UniProtKB:P05121}.

PAI-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PAI-1 Antibody - Images

PAI-1 Antibody - Background

PAI-1 (plasminogen activator inhibitor-1) is originally cloned from human endothelial cell and rat hepatoma cell cDNA libraries. As a member of the serpin family of serine protease inhibitors, PAI-1 inhibits both tissue-type palsminogen activator (t-PA) and urokinase-type plasminogen activator (u-PA). High PAI-1 levels are associated with an increased risk of thromboembolic disease while PAI-1 deficiency may represent an inherited autosomal recessive bleeding disorder.